

MANIT  BA

ANNUAL REPORT

1983

Office of the Fire
Commissioner



Annual Report
Office of The Fire Commissioner
Department of Labour

1983



Annual Report
Office of The Fair-Commissioner
Department of Labor

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June 01, 1984

The Honourable Mary Beth Dolin

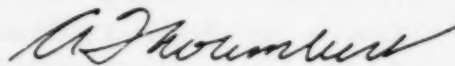
Minister of Labour

Province of Manitoba

Madam:

I have the honour to submit herewith the Annual Report of the
Fire Commissioner's Office, Province of Manitoba, for the calendar
year ended December 31, 1983.

Your Obedient Servant



A. Thorimbert

Fire Commissioner

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OFFICE OF THE FIRE COMMISSIONER

The Office of the Fire Commissioner administers Part II of the Fires Prevention Act, the Manitoba Fire Code (Regulation 15/77); Fire Hose Couplings and Fittings (Regulation 96/64). In addition the office also administers the application of the Manitoba Building Code under the Building and Mobile Homes Act.

FUNCTIONS

The overall functions of the Fire Commissioner's Office are:

- To promote and encourage the safety of persons, to reduce life and property loss in respect to fires, dangerous goods, structural and mechanical matters and other hazards.
- To suppress arson and investigate the cause origin and circumstances of fires.
- To advise and train the fire service and other interested groups in Fire Prevention/Protection practices and non-fire related emergency incidents.
- To advise and train building officials and other interested persons in the application of the Manitoba Building Code.
- To promote public education in Fire Prevention practices and life safety measures.
- To collect and analyse data to reduce cause of fires and other life safety hazards.
- To recommend relevant legislation.

The Branch which is directed by the Fire Commissioner, has a number of sections to carry out specific functions. These include the Engineering and Technical Services; Manitoba Fire College, Investigation, Prevention, Training and Statistical Sections.

STAFF

The Staff of the Office in 1983 consisted of the Fire Commissioner; Deputy Fire Commissioner and 45 staff persons situated throughout six regional offices.

REVIEW OF 1983

In 1983 the Province of Manitoba recorded 6,581 fire incidence and property damage of \$32,203,221. These figures represent 604 or a 10% increase in the number of fires and 11% or 4 million dollar reduction in property consumed by fire.

The 10% increase in the number of fires is mainly attributed to the number of outdoor property fires reported last year. The months of May and August both reported an increase of approximately 200 fires each over 1982. The reduction in the total fire loss figure can be

directly related to the decline in the major loss fire category. The major losses decreased from 20 fires to eight and by 3 million dollars, an impressive 40% and 32% reduction. Property destroyed in major loss fires represents approximately 21% of the total reported dollar loss in the province. This is a five percent reduction over the 1982 reported figures.

It is with much regret that we report an increase in fire fatalities over the past year. Fifty persons (26 men, 9 women and 15 children) succumbed in 36 fires. The number of male adult fatalities rose to 26 from 15 in 1982, representing an increase of 73%. The number of children who perished due to fire rose by four whereas the women decreased by the same number (4).

In the remote northern communities one child succumbed by fire. This fatality is the first death occurring since 1979 when one adult male and 7 children died, due to fire. The remote communities for the previous three years held a very impressive fatality free record. The reduction of fire deaths can be credited to the success of the Northlands Fire Prevention Program.

Ten men, two women and two children or 28% of all fire fatalities lost their lives in 11 fires in which alcohol was considered a contributing factor. These figures represent a slight reduction over the 33% reported during 1982. In 1983, 12 out of 14 fatalities were reported to have blood alcohol readings above the legal limit. Two children were innocent victims due to alcohol related fires.

The number of persons injured by fire rose to 340 or by 18% with the greatest increase in number to female adults.

Once again residential fires were responsible for 37% of all reported fires and 50% of the total property loss reported in 1983. This will help reinforce why 47 or 94% of all fire victims died in residential properties.

In an attempt to reduce the needless loss of life in the coming year, the office, will increase its efforts to educate the public in home fire safety and prevention.

This years edition of the Annual report has one new and four expanded charts and tables detailing additional information not previously included in past reports. These enhancements are included to meet the on-going requests received throughout the year. Charts 1 and 2 with Tables 4 and 18 have been revised and Table 21 developed to depict the seminars conducted by the investigation section.

The investigation section in conjunction with local police authorities conducted 450 fire investigations during 1983. Police forces in the province carried out an additional 429 to bring the total number of fire investigations conducted under the Fires Prevention Act to 879. The increase in the number of fire investigations over 1982 is due to new reporting procedures adopted by police forces in Manitoba. There were 483 investigations conducted in Metro Winnipeg, 60 in urban centers and 336 in rural areas. Accidental fires represented 53% of the total number of investigations conducted with incendiary, vandalism and undetermined-suspicious accounting for 207 or 25%. Undetermined-accidental causes followed closely with 203.

The number of persons charged last year rose slightly to 79 from the 1982 figure of 74. Persons convicted of fire related offences is down to 16 from the previous years total of 21. This figure could further be increased once the 42 court cases pending are disposed of. Sixty-nine juveniles were warned in 1983 in comparison to the 47 reported the previous year.

As mentioned earlier in this review Table 21 is a new addition to this years report. The inclusion of the table illustrates the demand in assisting with the education of police and fire service personnel in the identification of cause, origin and circumstances surrounding fires.

The fire prevention section conducted 510 inspections an increase of 40 or 10%. Also encouraging to note is the fewer corrections or remedial orders issued and the rise (21%) in the number of infractions corrected on the spot during inspections in 1983. Inspections conducted by the office were mainly carried out in "Day Care" and "Care for the Aged" occupancies. The greatest number of orders issued in all occupancies due to deficiencies were "Fire Extinguishers" "Storage Areas" and "Housekeeping" conditions.

In the fall of 1982 the Municipal Fire Prevention Program was made available to all fire departments in the Province. The purpose of this program is to increase public awareness of potential fire hazards through annual inspections in all public buildings, structures and premises with the exception of hospitals, nursing homes and day-care centres which will remain the responsibility of the Office of the Fire Commissioner's staff. There are presently 8,700 buildings on the computer file with 33 fire departments participating in 1983. This represents an increase of 12 departments (57%) and an increase of 450 more inspections conducted in comparison to 1982.

December 1, 1983 marked the amalgamation of the Technical Services section of this office with the Building Standards Division of the Mechanical and Engineering Branch of the Department of Labour. The unification of these two sections established the Engineering and Technical Services Section under the direction of the Fire Commissioner. This section's responsibilities will now involve the review and approval of building plans for new and existing construction; administer and apply the Manitoba Fire and Manitoba Building Codes; inspection of buildings to ensure satisfactory standards of life and fire safety have been achieved in both new construction and upgrading of existing buildings; in addition to the issuing of building permits. This merge increased the Winnipeg staff compliment by 11 positions.

This section is also responsible, for the Building Standards Board and its' committees in addition to the Fire Advisory Committee and respective sub-committees and task groups.

The Fire Training and Special Services section continued to meet the demands of the fire service and personnel working in care institutions; government staff, the insurance industry and the general public through courses offered at the Manitoba Fire College. The Fire College in co-operation with the Assiniboine Community College conducted 218 courses attended by 3,964 candidates. Of the courses held in 1983 three new courses were introduced into the education program. They were Fire Control Seminar; Fire Department Management and Introduction to Fire Department Management.

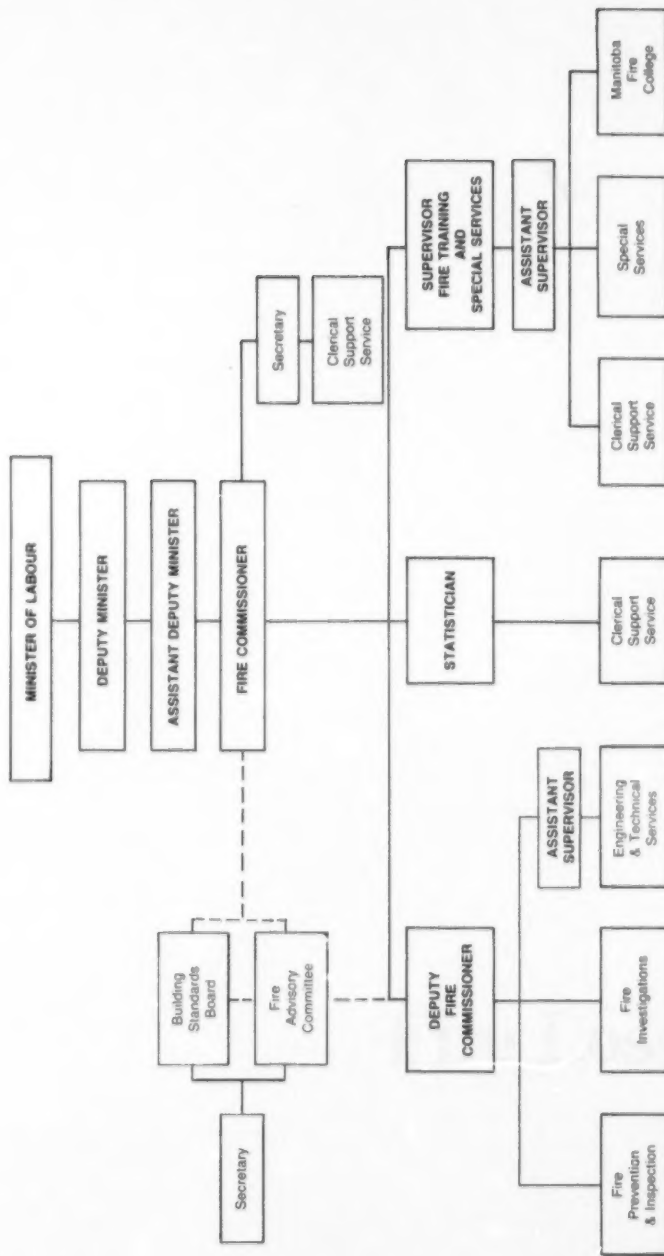
The Training Section were instrumental in the purchasing and distribution of 60 mobile radios to fire departments participating in the on-going Mutual Aid Program. The mobile radios intended to be installed in the first responding piece of apparatus, will enable the fire department to have constant communication with their fire station in addition to the capacity of calling other agencies for assistance if required.

In co-operation with the Department of Northern Affairs under the Northlands agreement the training section continued to promote fire prevention through dwelling inspections; fire safety education programs, film showings and lectures to school children as well as training of local fire department personnel.

1983 Prevention activities under this program were directed toward re-inspections, training and assisting local fire prevention officers in conducting on-going prevention programs within their communities.

In concluding the review of achievements during the past year, the Fire Commissioner's Office takes this opportunity to thank the various agencies and organizations which support and assist the office in carrying out its responsibilities. We look forward to continuing the excellent working relationship with fire and police services in the Province as well as with members of the insurance industry.

FUNCTIONS OF THE OFFICE OF THE FIRE COMMISSIONER PROVINCE OF MANITOBA



OFFICE FUNCTIONS

FIRE PREVENTION AND INSPECTION

- Inspection of:
 - Public Buildings
 - Schools
 - Hotels and Motels
 - Institutions
 - Industrial
 - Establishments
- Instruct and lecture to:
 - staff of hospitals, schools, fire departments and industrial establishments

FIRE INVESTIGATIONS

- Detection of arson
- Determination of cause and origin
- Investigation of fires resulting in injuries or fatalities
- Instruct and lecture to law enforcement authorities and fire departments re: arson investigation

ENGINEERING AND TECHNICAL SERVICES

- Examines plans and specifications for:
 - New and Existing Buildings containing:
 - Hazardous Products
 - Spray Painting
 - Automatic Extinguishing Systems
 - Flammable Liquids
- Applies and interprets the Manitoba Fire Code and Referenced Standards

STATISTICS

- Compile and disseminate statistics uniform fire loss
- Prepare Annual Report
- Instruct to:
 - fire departments and insurance adjusters re: fire loss reporting

SPECIAL SERVICES

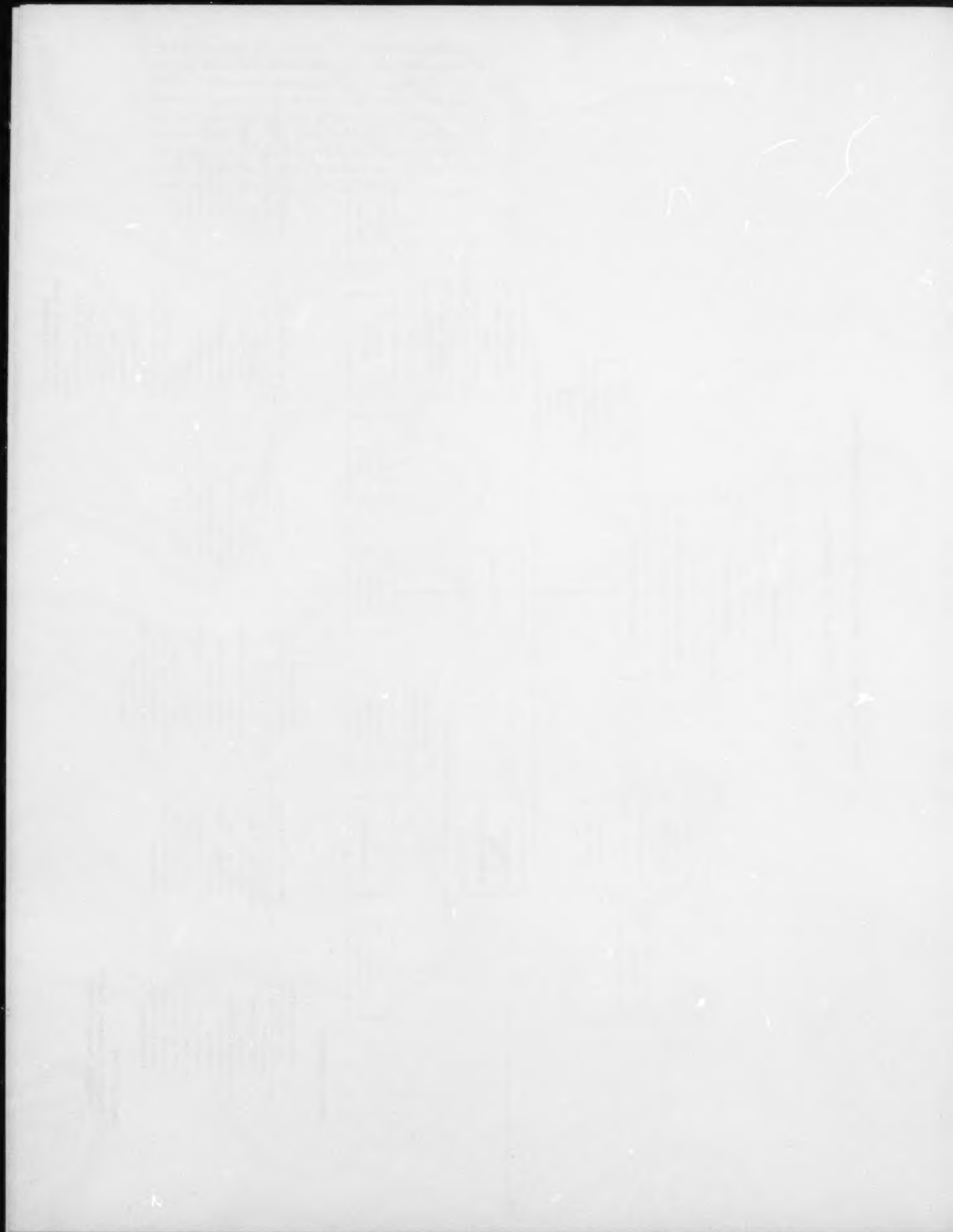
- Assist fire department in:
 - Organization
 - Equipment
 - Apparatus
 - Requirements
 - Mutual Aid
- Conduct:
 - Fire Protection Surveys
 - Fire Pumpers Tender
 - Fire Pumpers Assessments
 - Fire Pumpers Performance and Acceptance Field Test
 - Instruct:
 - On the Control of Dangerous Goods Incidents

MANITOBA FIRE COLLEGE

- Certification Program
- Certify:
 - Paid and Volunteer Fire Fighters
 - Fire Service Instructors
 - Fire Prevention Officers
 - Institutional Fire Marshals
 - Institutional Staff

Regional Offices

Winnipeg (2), Brandon, Dauphin
Thompson, Portage la Prairie



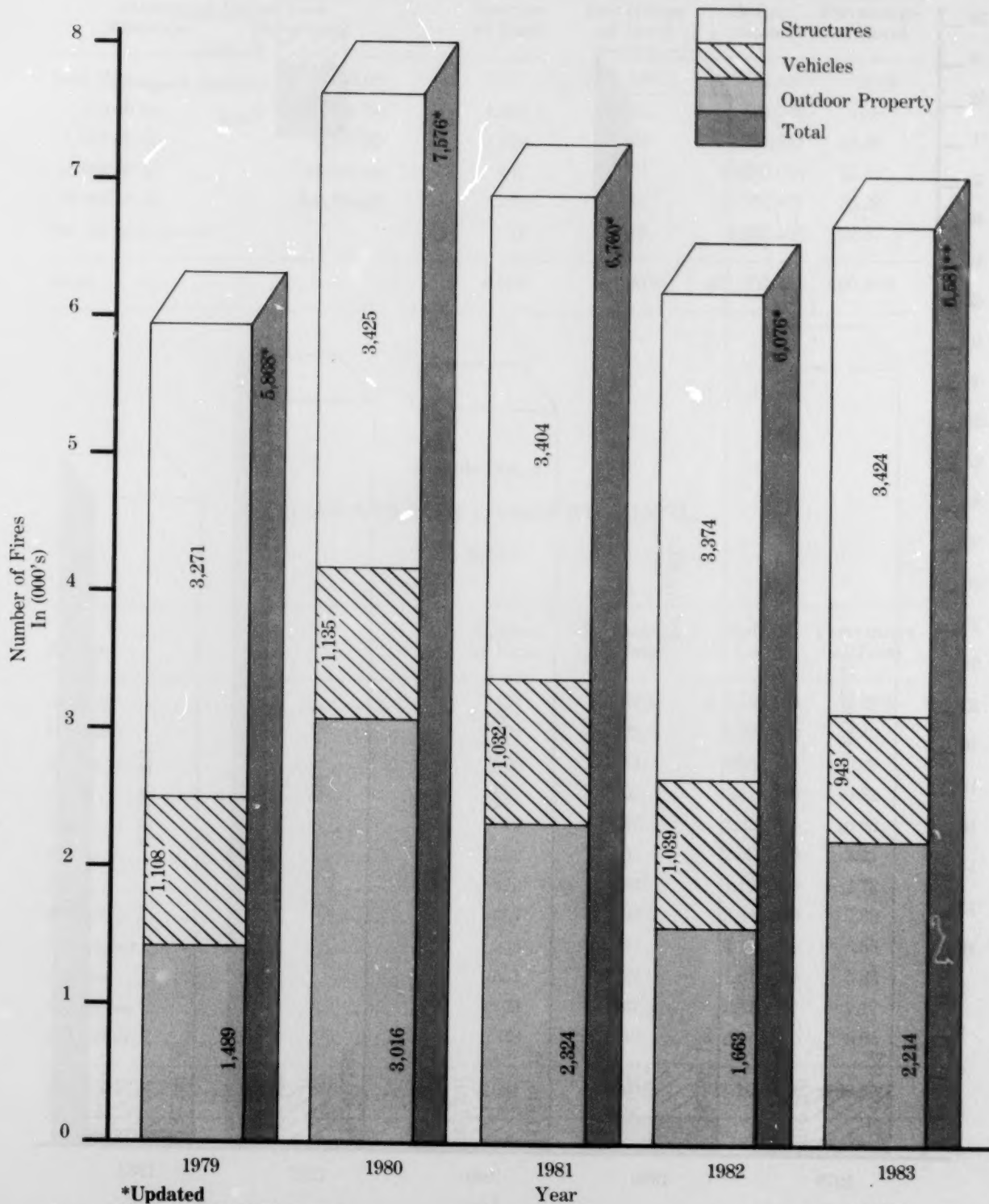
Section I

Fire Loss Statistics

Section 1

The Loss Statistics

Chart No. 1
COMPARATIVE CHART OF THE TOTAL NUMBER OF FIRES IN MANITOBA,
1979 - 1983



*Updated

**Preliminary Fire Loss

Chart No. 2
COMPARATIVE CHART OF THE TOTAL DOLLAR LOSS IN MANITOBA,
1979 - 1983

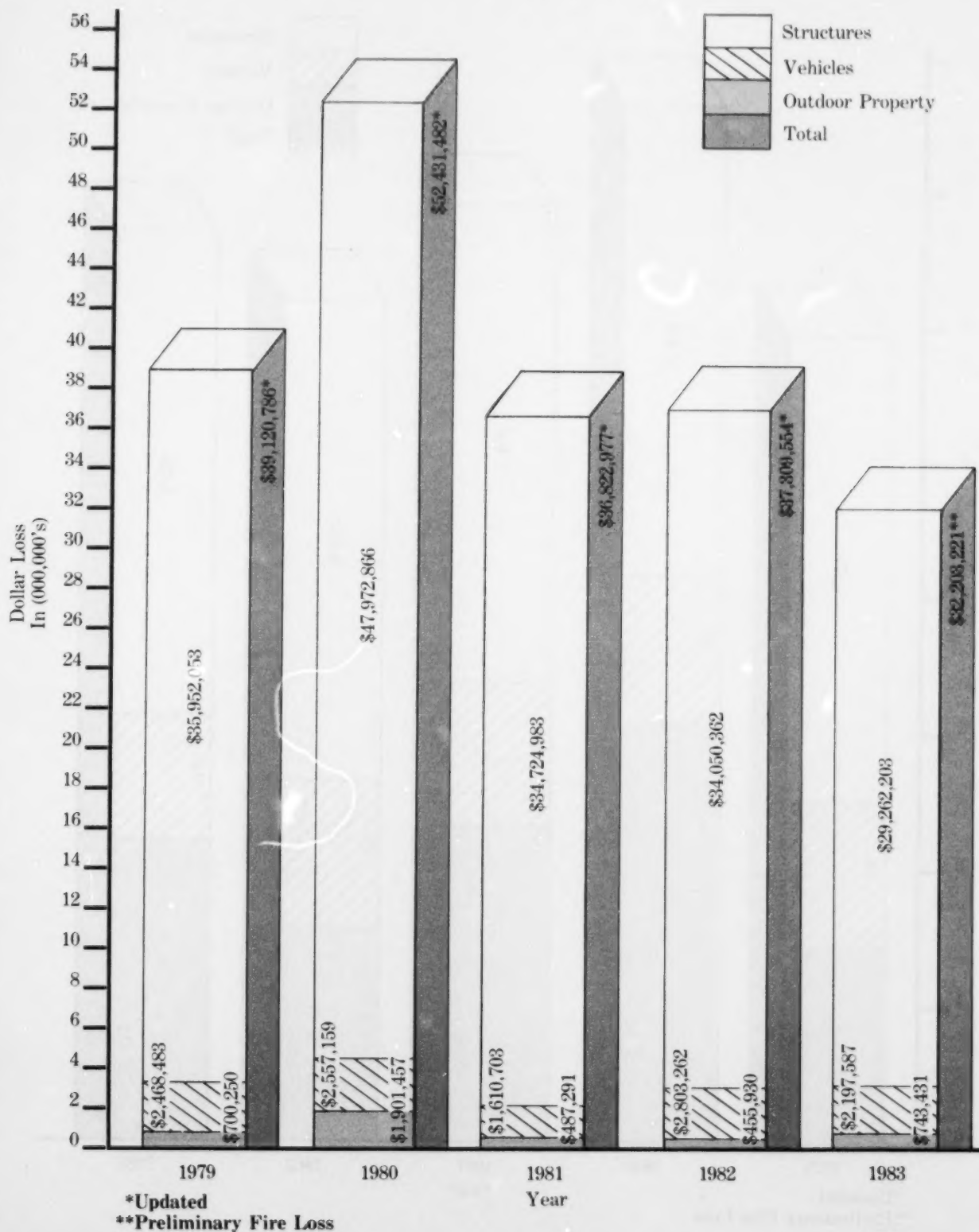


Table No. 1
DISTRIBUTION OF FIRES BY AMOUNT OF DOLLAR LOSS,
1983

Amount of Dollar Loss Minimum Maximum	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
Less than \$ 100.00	3,187	48.43%	\$ 12,649	.04%
100.00 to 999.99	1,569	23.84	604,789	1.88
1,000.00 to 9,999.99	1,250	18.99	3,825,347	11.88
10,000.00 to 49,999.99	442	6.72	10,382,604	32.24
50,000.00 to 249,999.99	121	1.84	10,752,678	33.39
250,000 and greater	12	.18	6,625,154	20.57
Total	6,581	100.00%	\$32,203,221	100.00%

Table No. 2
FIRES AND FIRE LOSSES BY MONTH,
1983

Month	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
January	426	6.47%	\$ 3,108,364	9.65%
February	394	5.99	3,028,688	9.40
March	404	6.14	3,538,265	10.99
April	727	11.05	3,484,870	10.82
May	879	13.36	3,226,965	10.02
June	528	8.02	2,966,199	9.21
July	482	7.32	1,197,419	3.72
August	657	9.98	2,443,743	7.59
September	546	8.30	2,108,457	6.55
October	551	8.37	1,876,029	5.83
November	439	6.67	2,310,157	7.17
December	548	8.33	2,914,065	9.05
Total	6,581	100.00%	\$32,203,221	100.00%

Chart No. 3
NUMBER OF FIRES BY DAY OF WEEK,
1983

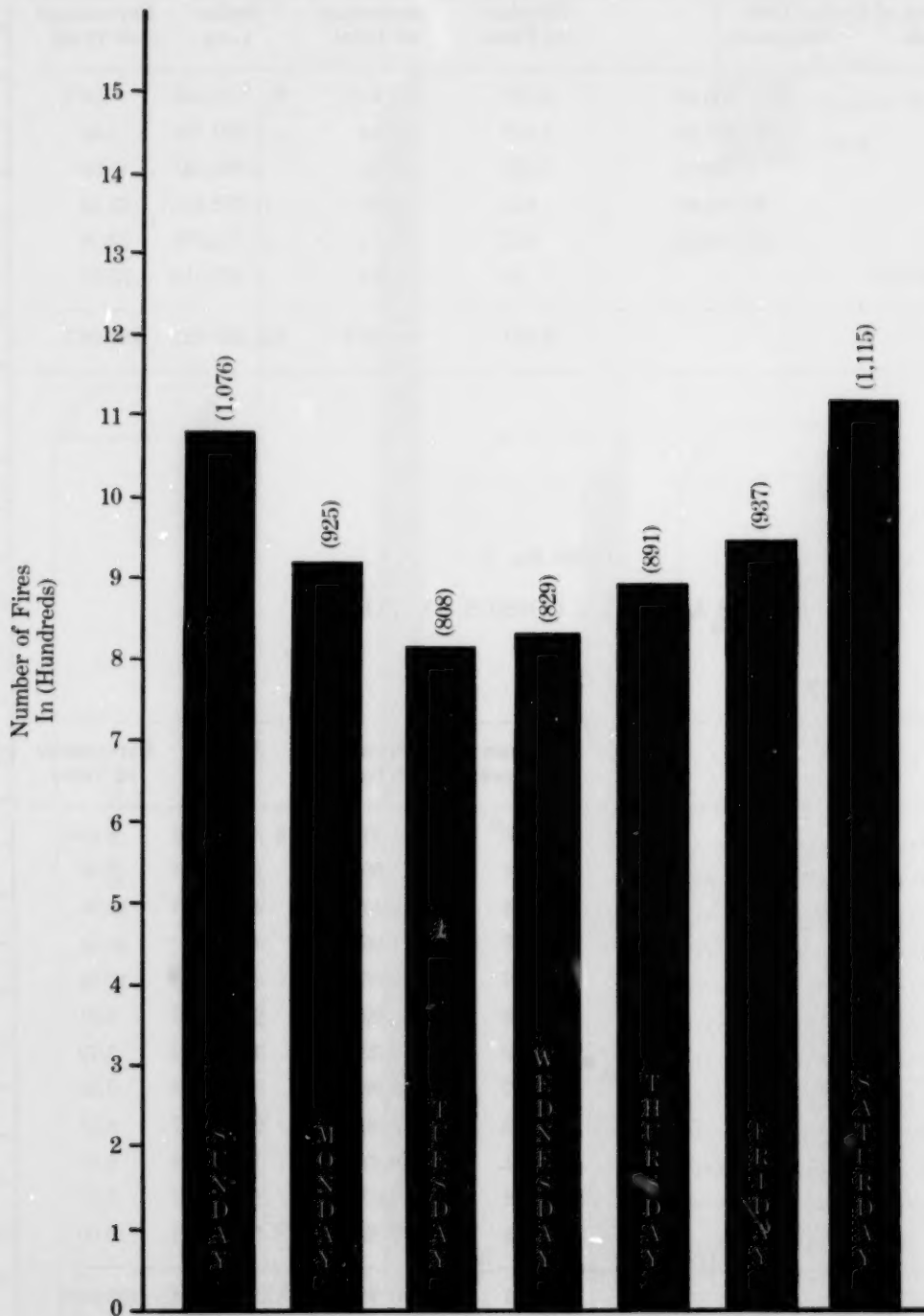


Chart No. 4
DOLLAR LOSS BY DAY OF WEEK,
1983

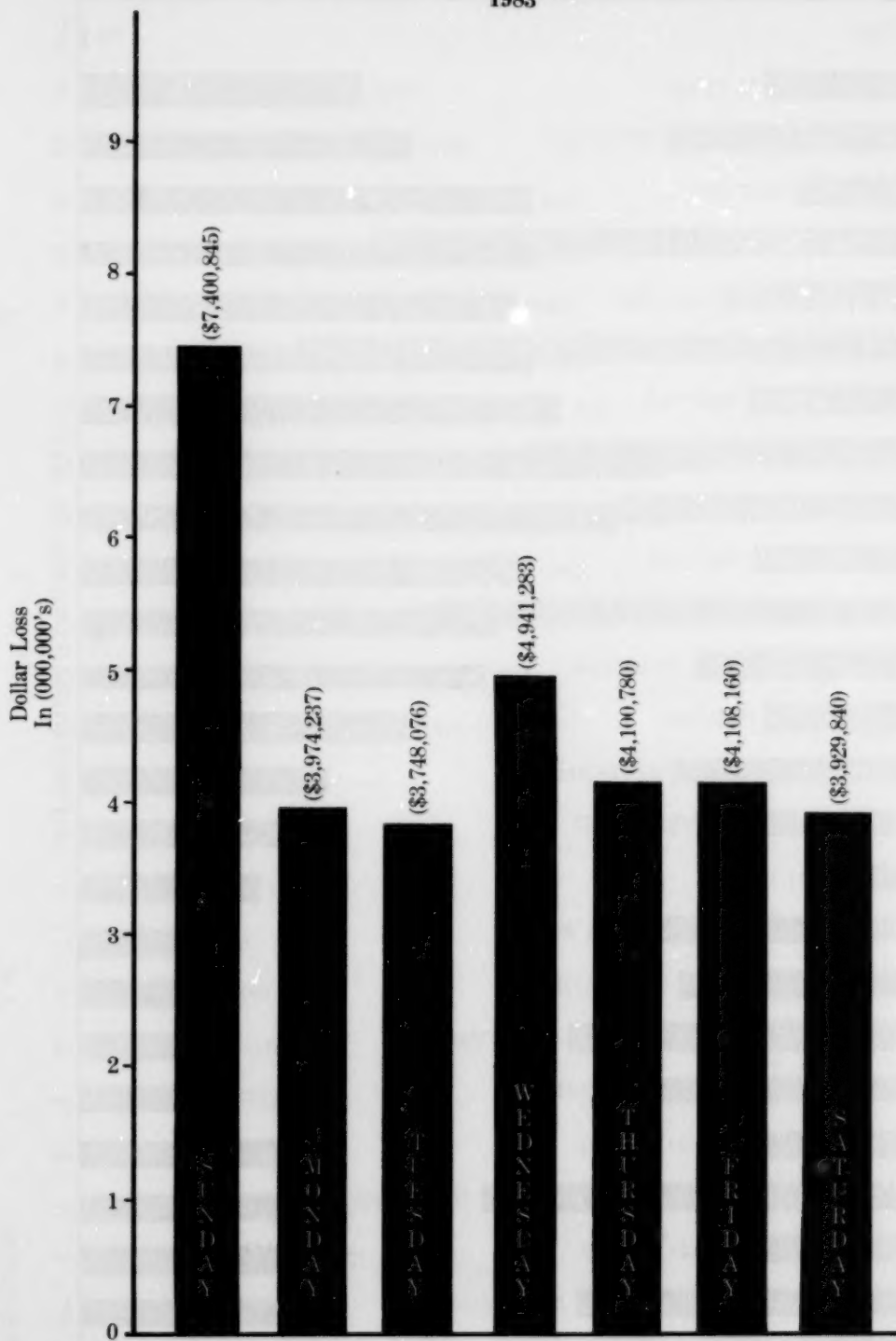


Chart No. 5
NUMBER OF FIRES BY HOUR OF DAY,
1983

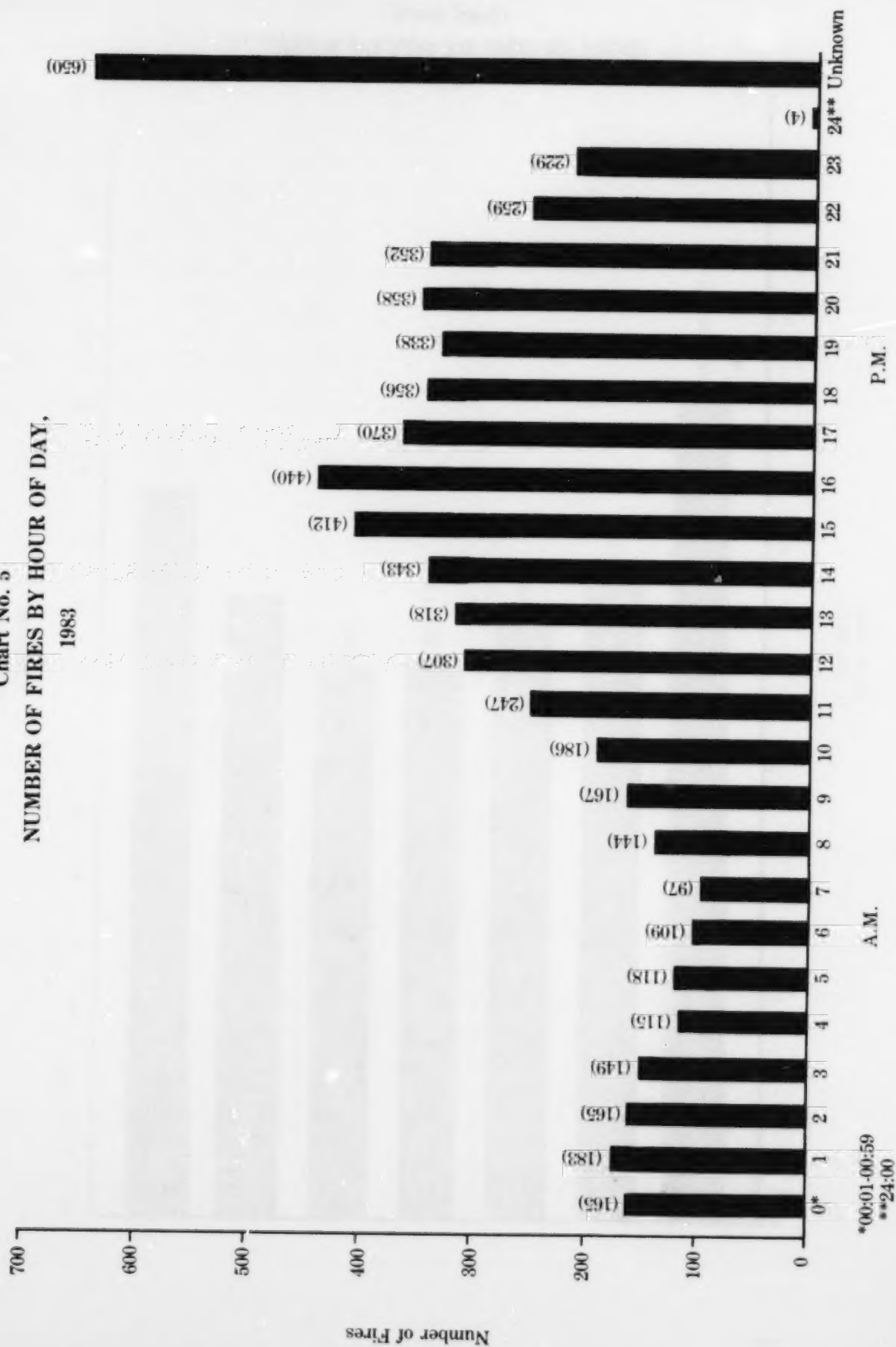


Chart No. 6
DOLLAR LOSS BY HOUR OF DAY,
1983

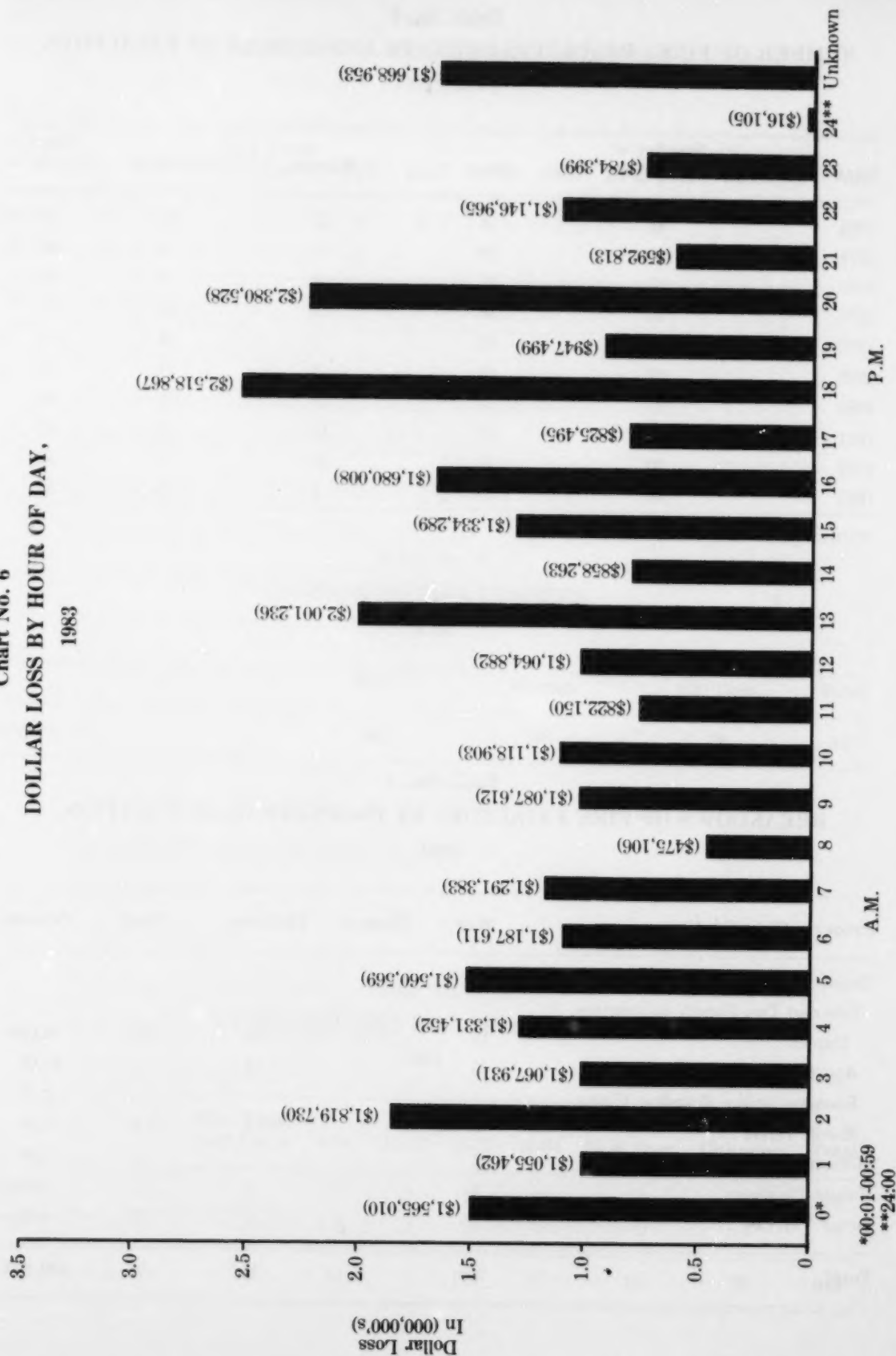


Table No. 3
NUMBER OF FIRES RESULTING IN DEATH AND DETAILS OF FATALITIES,
1974 - 1983

Year	Number of Fatal Fires	Men	Women	Children ¹	Total Fatalities
1974	42	28	22	22	72
1975	30	16	11	8	35
1976	33	27	12	9	48
1977	43	46	15	14	75
1978	36	31	8	13	52
1979	32	24	6	14	44
1980	27	13	11	12	36
1981	36	25	15	12	52
1982	30	15	13	11	39
1983	36	26	9	15	50

¹Fifteen years of age and under

Table No. 4
BREAKDOWN OF FIRE FATALITIES BY PROPERTY CLASSIFICATION,
1983

Property Classification	Men	Women	Children	Total	Percent
Residential:					
One and Two Family Residences,					
Duplex	18	7	12	37	74.00%
Apartment, Condominium	3	1	1	5	10.00
Rooming and/or Boarding House .	1	-	-	1	2.00
Mobile Home	-	1	2	3	6.00
Mercantile	1	-	-	1	2.00
Vacant Buildings	1	-	-	1	2.00
Motor Vehicles	2	-	-	2	4.00
Total	26	9	15	50	100.00%

Table No. 5
FIRE FATALITIES BY AGE AND SEX,
1983

	Five Years and Under	6-14	15-17	18-39	40-64	65 & Over	Unknown	Total
Male	4	3	2	10	9	5	-	33
Female	6	2	-	7	1	1	-	17
Total	10	5	2	17	10	6	-	50

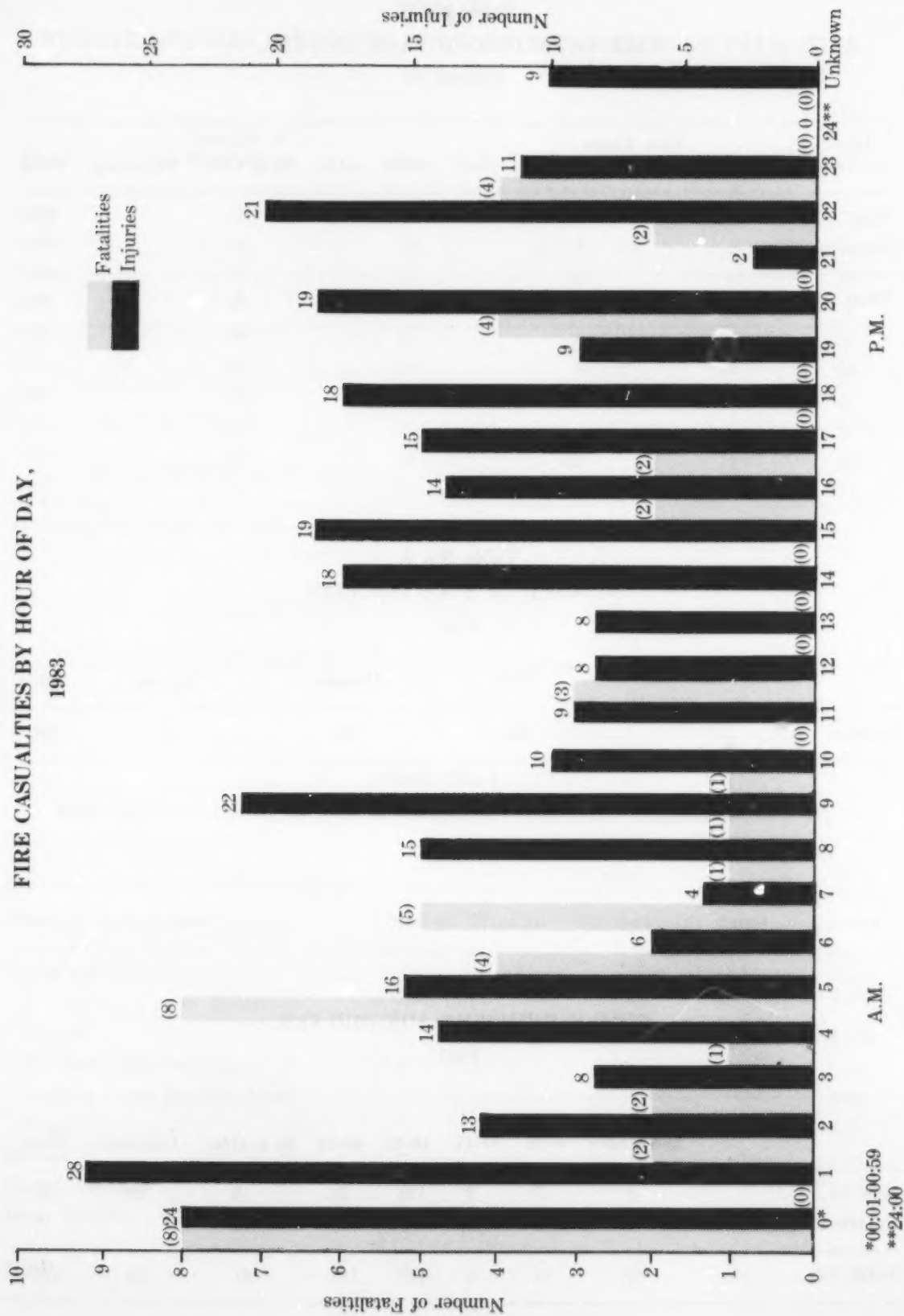
Table No. 6
NUMBER OF FIRE INJURIES,
1983

	Men	Women	Children	Total
Injuries	246	68	26	340

Table No. 7
FIRE INJURIES BY AGE AND SEX,
1983

	Five Years and Under	6-14	15-17	18-39	40-64	65 & Over	Unknown	Total
Male	8	7	2	119	93	13	21	263
Female	3	6	2	29	18	12	7	77
Total	11	13	4	148	111	25	28	340

Chart No 7
FIRE CASUALTIES BY HOUR OF DAY,
1983



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**24:00

Table No. 8
BREAKDOWN OF FIRE FATALITIES BY ACT OR OMISSION,
1983

Act or Omission	Men	Women	Children	Total	Percent
Incendiary or Set Fire	2	-	1	3	6.00%
Misuse of Source of Ignition	7	3	8	18	36.00
Misuse of Material Ignited	-	-	-	-	-
Mechanical, Electrical Failure, Malfunction	2	-	-	2	4.00
Construction, Design or Installation Deficiency	-	1	-	1	2.00
Misuse of Equipment	-	-	-	-	-
Human Failing	2	-	2	4	8.00
Vehicle Accident	1	-	-	1	2.00
Still Under Investigation	1	1	1	3	6.00
Undetermined	11	4	3	18	36.00
Unclassified	-	-	-	-	-
Total	26	9	15	50	100.00%

Table No. 9
CIRCUMSTANCES CONTRIBUTING TO FIRE CASUALTIES,
1983

Condition of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	3	231
Asleep at time of fire	12	31
Bedridden or other physical or mental handicap	2	3
Impairment by Alcohol	12	6
Impairment by Drugs	-	-
Under restraint or detention	-	-
Too young to act	2	6
Senile	-	1
Left unattended (children)	3	-
Unclassified or unknown	16	62
	50	340

Action of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	6	75
Injured while attempting to escape	2	20
Over-exertion, heart attack, etc.	1	7
Voluntarily entered or remained for rescue purposes	1	21
Voluntarily entered or remained for fire fighting	-	143
Voluntarily entered or remained to save personal property	-	6
Loss of judgement; panic	5	11
Received delayed warning	1	3
Parents or guardian injured	-	1
Unclassified or unknown	34	53
	50	340

Table No. 9 (continued)
CIRCUMSTANCES CONTRIBUTING TO FIRE CASUALTIES,
1983

Ignition of Clothing at Time of Fire	Fatalities	Injuries
Not applicable	16	279
Outer clothing	8	12
Sleepwear	2	3
Underclothing	-	2
Costume	-	-
Bedding or bed linen; mattress or pillow	3	6
Upholstered furniture	1	3
Unclassified or unknown	20	35
	<u>50</u>	<u>340</u>

Type of Fabric or Material Ignited	Fatalities	Injuries
Not applicable	16	267
Cotton	3	14
Wool	-	-
Other natural fibre	-	1
Rayon (viscose)	-	-
Other synthetic fibre	-	3
Mixture fibres	9	7
Rubber	-	2
Plastic Foam	-	-
Unclassified or unknown	22	46
	<u>50</u>	<u>340</u>

Cause of Failure to Escape	Fatalities	Injuries
Not applicable	5	254
Trapped by: rapid spread of fire/smoke through vertical openings; stairways, elevators	5	5
Trapped by: rapid spread of fire/smoke through horizontal openings	7	7
High flame spread of combustible interior finish of walls, ceilings, or floors	4	5
Building collapse	-	-
Falling Debris	-	1
Explosion	2	11
Exit blocked or obstructed by fire	3	1
Outdoor fires, includes forest and bush	-	3
Unclassified or unknown	24	53
	<u>50</u>	<u>340</u>

Table No. 10
LOSSES BY MAJOR PROPERTY CLASSIFICATIONS,
1983

Property Classification	Number of Fires	Percent	Dollar Loss	Percent
ASSEMBLY				
Theatre, Studio, Auditorium	1	.02%	\$ -	- %
Amusement and Recreation Place	15	.23	8,450	.03
School, College, University	41	.62	124,955	.39
Church, Court Room, Funeral Parlour	2	.03	74,000	.23
Social, Sport Club	6	.09	383,704	1.19
Library, Museum	-	-	-	-
Eating Establishment	41	.62	628,199	1.95
Passenger Terminal, Station	-	-	-	-
Miscellaneous	1	.02	-	-
Sub-total	107	1.63	1,219,308	3.79
INSTITUTIONAL				
Prison, Jail, Reformatory	8	.12	1,875	.01
Home for the Aged	11	.17	6,205	.02
Children's Hospital	2	.03	400	-
Hospital, Sanatorium, Clinic	31	.47	19,454	.06
Miscellaneous	1	.02	939	-
Sub-total	53	.81	28,873	.09
RESIDENTIAL				
Residence	1,867	28.37	11,332,465	35.20
Apartment	422	6.41	2,574,520	7.99
Rooming, Boarding House	23	.35	197,290	.61
Hotel	54	.82	1,111,216	3.45
Motor Hotel	6	.09	38,550	.12
Dormitory	1	.02	10,000	.03
Mobile Home	64	.97	753,437	2.34
Miscellaneous	8	.12	2,313	.01
Sub-total	2,445	37.15	16,019,791	49.75
BUSINESS AND PERSONAL SERVICES				
Office	21	.32	298,442	.93
Personal Service	-	-	-	-
Electronic Equipment	-	-	-	-
Miscellaneous	4	.06	54,986	.17
Sub-total	25	.38	353,428	1.10
MERCANTILE				
Food, Beverage Sale	24	.36	593,408	1.84
Textile, Wearing Apparel Sale	6	.09	123,572	.38
Furniture, Appliance, Hardware Sale	12	.18	436,455	1.36
Books, Newspapers, Drugs, Specialties	2	.03	150,500	.47
Recreation, Hobby Supplies	5	.08	31,132	.10
Repair Shop, Laundry, Dry Cleaner	11	.17	47,331	.15
Motor Vehicle, Boat, Sales and Service	31	.47	887,148	2.75
Department, Variety Store	7	.11	42,150	.13
Miscellaneous	2	.03	310,036	.96
Sub-total	100	1.52	2,621,732	8.14
INDUSTRIAL MANUFACTURING PROPERTIES				
Chemical, Petroleum, Paints, Plastics	4	.06	1,216,825	3.78
Wood, Furniture, Paper Printing	21	.31	569,578	1.77
Metal, Metal Products, Electrical Appliances	17	.26	1,114,194	3.46
Food Processing	18	.27	402,690	1.25
Beverages, Tobacco, Soap, Margarine	1	.02	-	-
Textiles	2	.03	20,000	.06
Footwear, Wearing Apparel	3	.05	150	-
Vehicles and Related Equipment	1	.02	-	-
Miscellaneous	17	.26	413,288	1.28
Sub-total	84	1.28	3,736,725	11.60

Table No. 10 (continued)
LOSSES BY MAJOR PROPERTY CLASSIFICATIONS,
1983

Property Classification	Number of Fires	Percent	Dollar Loss	Percent
INDUSTRIAL STORAGE PROPERTIES				
Agricultural Products	25	.37%	\$ 347,712	1.08%
Textiles, Fibers, Clothing	1	.02	4,000	.01
Processed Food, Beverages	1	.02	5,000	.02
Flammable Liquids, Gasses, Petroleum	1	.02	-	-
Wood Furniture, Paper and Products	5	.08	7,300	.02
Chemicals, Plastics, Paints	2	.03	421,612	1.31
Metal Goods, Machinery, Electrical Appliances	1	.02	-	-
Vehicles	155	2.35	858,502	2.66
Miscellaneous	28	.42	504,148	1.57
Sub-total	219	3.33	2,148,274	6.67
SPECIAL PROPERTY—TRANSPORTATION EQUIPMENT				
Outdoor Property	2,212	33.60	743,431	2.31
Pier, Wharf	2	.03	-	-
Under Construction/Demolition; Vacant	104	1.58	577,158	1.79
Watercraft	14	.21	284,518	.88
Rail Transport Vehicle and Equipment	15	.23	94,800	.29
Ground Transport Vehicle	818	12.42	1,266,307	3.94
Aircraft	5	.08	90,122	.28
Special Vehicle	90	1.37	431,840	1.34
Miscellaneous	1	.02	30,000	.09
Sub-total	3,261	49.54	3,518,176	10.92
MISCELLANEOUS				
Laboratories	3	.05	1,200	-
Farm Facilities	176	2.66	1,803,264	5.61
Miscellaneous Outbuildings	62	.94	315,728	.98
Utility	40	.61	22,677	.07
Cement, Glass, Pottery Manufacturing	2	.03	403,015	1.25
Mining, Quarrying	-	-	-	-
Communications	-	-	-	-
Nucleonics	1	.02	-	-
Miscellaneous	3	.05	11,030	.03
Sub-total	287	4.36	2,556,914	7.94
Total	6,581	100.00%	\$32,203,221	100.00%

Table No. 10(a)
BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,
1983

Area of Origin of Fire	No.	Assembly			No.	Institutional		
		Percent	Amount	Percent		Percent	Amount	Percent
Means of Egress	9	8.41%	\$ 6,855	.56%	6	11.32%	\$ -	- %
Assembly, Sales Area	5	4.67	32,000	2.62	5	9.43	450	1.56
Function Area	48	44.87	698,950	57.32	31	58.49	2,824	9.78
Storage Area	13	12.15	225,929	18.53	2	3.77	150	.52
Service Facilities	2	1.87	2,429	.20	3	5.66	1,875	6.49
Service and Equipment Area	11	10.28	38,620	3.17	1	1.89	6,714	23.25
Structural Area	13	12.15	58,725	4.82	1	1.89	860	2.98
Vehicle Area	-	-	-	-	-	-	-	-
Outside Area	3	2.80	2,800	.23	3	5.66	16,000	55.42
Undetermined/Unclassified	3	2.80	153,000	12.55	1	1.89	-	-
Total	107	100.00%	\$1,219,308	100.00%	53	100.00%	\$28,873	100.00%

Table No. 10(b)
BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,
1983

Area of Origin of Fire	No.	Residential			No.	Business and Personal Services		
		Percent	Amount	Percent		Percent	Amount	Percent
Means of Egress	82	3.35%	\$ 539,757	3.37%	4	16.00%	\$ 550	.16%
Assembly, Sales Area	403	16.49	2,694,344	16.82	-	-	-	-
Function Area	1,183	48.39	5,786,987	36.13	8	32.00	14,305	4.05
Storage Area	137	5.60	1,279,867	7.99	4	16.00	950	.27
Service Facilities	256	10.47	505,456	3.16	-	-	-	-
Service and Equipment Area	107	4.38	756,864	4.72	4	16.00	133,523	37.78
Structural Area	160	6.54	2,103,106	13.13	4	16.00	204,100	57.74
Vehicle Area	11	.45	152,800	.95	-	-	-	-
Outside Area	15	.61	83,606	.52	-	-	-	-
Undetermined/Unclassified	91	3.72	2,117,004	13.21	1	4.00	-	-
Total	2,445	100.00%	\$16,019,791	100.00%	25	100.00%	\$353,428	100.00%

Table No. 10(c)
BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,
1983

Area of Origin of Fire	No.	Mercantile			No.	Industrial Manufacturing Properties		
		Percent	Amount	Percent		Percent	Amount	Percent
Means of Egress	5	5.00%	\$ 4,375	.17%	3	3.57%	\$ 150	- %
Assembly, Sales Area	14	14.00	396,100	15.11	1	1.19	370	.01
Function Area	11	11.00	14,319	.55	21	25.01	1,092,692	29.24
Storage Area	26	26.00	888,809	33.90	6	7.14	54,478	1.46
Service Facilities	5	5.00	24,297	.93	9	10.71	30,250	.81
Service and Equipment Area	12	12.00	508,977	19.41	25	29.77	585,338	15.66
Structural Area	16	16.00	360,026	13.73	4	4.76	118,100	3.16
Vehicle Area	3	3.00	9,669	.37	1	1.19	1,200	.03
Outside Area	4	4.00	43,310	1.65	8	9.52	12,346	.33
Undetermined/Unclassified	4	4.00	371,850	14.18	6	7.14	1,841,801	49.30
Total	100	100.00%	\$2,621,732	100.00%	84	100.00%	\$3,736,725	100.00%

Table No. 10(d)
BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,
1983

Area of Origin of Fire	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	-	- %	\$ -	- %	6	.18%	\$ 12,000	.34%
Assembly, Sales Area	2	.91	53,382	2.48	6	.18	62,835	1.79
Function Area	2	.91	61,000	2.84	17	.52	90,634	2.58
Storage Area	159	72.61	1,370,509	63.80	27	.83	255,321	7.26
Service Facilities	5	2.28	2,460	.11	1	.03	1,000	.03
Service and Equipment Area	7	3.20	310,057	14.43	1	.03	-	-
Structural Area	12	5.48	182,109	8.48	19	.58	69,572	1.98
Vehicle Area	14	6.39	121,932	5.68	923	28.31	1,948,537	55.38
Outside Area	15	6.85	22,825	1.06	2,229	68.36	932,481	26.50
Undetermined/Unclassified	3	1.37	24,000	1.12	32	.98	145,796	4.14
Total	219	100.00%	\$2,148,274	100.00%	3,261	100.00%	\$3,518,176	100.00%

Table No. 10(e)
BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION,
1983

Area of Origin of Fire	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	1	.35%	\$ 5,000	.20%	116	1.76%	\$ 568,687	1.77%
Assembly, Sales Area	11	3.83	325	.01	447	6.79	3,239,806	10.06
Function Area	7	2.44	1,565	.06	1,328	20.18	7,763,276	24.10
Storage Area	84	29.27	1,554,771	60.80	458	6.96	5,630,784	17.48
Service Facilities	4	1.39	39,517	1.55	285	4.33	607,284	1.89
Service and Equipment Area	10	3.48	502,360	19.64	178	2.70	2,842,453	8.83
Structural Area	10	3.48	34,538	1.35	239	3.63	3,131,136	9.72
Vehicle Area	4	1.39	40,534	1.59	956	14.53	2,274,672	7.06
Outside Area	149	51.93	257,379	10.07	2,426	36.87	1,370,747	4.26
Undetermined/Unclassified	7	2.44	120,925	4.73	148	2.25	4,774,376	14.83
Total	287	100.00%	\$2,556,914	100.00%	6,581	100.00%	\$32,203,221	100.00%

Table No. 11
BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,
1983

Act or Omission	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	45	42.06%	\$ 595,072	48.81%	8	15.09%	\$ 5,250	18.18%
Misuse of Source of Ignition	8	7.48	100,750	8.26	23	43.40	13,534	46.88
Misuse of Material Ignited	6	5.61	16,695	1.37	3	5.66	1,000	3.46
Mechanical, Electrical								
Failure, Malfunction	21	19.63	82,053	6.73	10	18.87	7,959	27.57
Construction, Design or								
Installation Deficiency	1	.93	150	.01	-	-	-	-
Misuse of Equipment	3	2.80	125,662	10.31	-	-	-	-
Human Failing	9	8.41	9,026	.74	8	15.09	1,130	3.91
Vehicle Accident	-	-	-	-	-	-	-	-
Unclassified	2	1.87	54,025	4.43	-	-	-	-
Undetermined/								
Not Applicable	12	11.21	235,875	19.34	1	1.89	-	-
Total	107	100.00%	\$1,219,308	100.00%	53	100.00%	\$28,873	100.00%

Table No. 11(a)
BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,
1983

Act or Omission	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	177	7.24%	\$ 2,251,995	14.06%	6	24.00%	\$ 50	.01%
Misuse of Source of Ignition	496	20.29	2,045,277	12.77	4	16.00	2,575	.73
Misuse of Material Ignited	106	4.34	638,293	3.98	-	-	-	-
Mechanical, Electrical								
Failure, Malfunction	513	20.98	2,958,936	18.47	10	40.00	69,691	19.72
Construction, Design or								
Installation Deficiency	110	4.50	584,858	3.65	-	-	-	-
Misuse of Equipment	36	1.47	64,207	.40	-	-	-	-
Human Failing	665	27.19	1,973,941	12.32	2	8.00	202,000	57.15
Vehicle Accident	1	.04	825	.01	-	-	-	-
Unclassified	52	2.13	261,283	1.63	1	4.00	78,312	22.16
Undetermined/								
Not Applicable	289	11.82	5,240,176	32.71	2	8.00	800	.23
Total	2,445	100.00%	\$16,019,791	100.00%	25	100.00%	\$353,428	100.00%

Table No. 11(b)
BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,
1983

Act or Omission	No.	Mercantile		Percent	Industrial Manufacturing Properties			
		Percent	Amount		No.	Percent	Amount	Percent
Incendiary or Set Fire	27	27.00%	\$ 983,478	37.51%	3	3.57%	\$ 115,000	3.08%
Misuse of Source of Ignition	16	16.00	10,735	.41	18	21.43	62,398	1.67
Misuse of Material Ignited	5	5.00	57,135	2.18	4	4.76	105,794	2.83
Mechanical, Electrical								
Failure, Malfunction	22	22.00	118,536	4.52	30	35.72	246,657	6.60
Construction, Design or								
Installation Deficiency	2	2.00	23,247	.89	6	7.14	31,700	.85
Misuse of Equipment	1	1.00	2,500	.10	-	-	-	-
Human Failing	3	3.00	3,200	.12	4	4.76	-	-
Vehicle Accident	1	1.00	4,700	.18	-	-	-	-
Unclassified	4	4.00	2,475	.09	3	3.57	16,100	.43
Undetermined/								
Not Applicable	19	19.00	1,415,726	54.00	16	19.05	3,159,076	84.54
Total	100	100.00%	\$2,621,732	100.00%	84	100.00%	\$3,736,725	100.00%

Table No. 11(c)
BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,
1983

Act or Omission	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	62	28.31%	\$ 307,080	14.29%	1,454	44.58%	\$1,021,442	29.04%
Misuse of Source of Ignition	24	10.96	110,364	5.14	460	14.11	537,588	15.28
Misuse of Material Ignited	12	5.48	52,295	2.43	34	1.04	103,548	2.94
Mechanical, Electrical								
Failure, Malfunction	33	15.07	281,711	13.11	538	16.50	848,590	24.12
Construction, Design or								
Installation Deficiency	5	2.28	47,262	2.20	8	.25	2,950	.08
Misuse of Equipment	5	2.28	37,154	1.73	2	.06	200	.01
Human Failing	6	2.74	6,049	.28	41	1.26	42,232	1.20
Vehicle Accident	-	-	-	-	25	.77	119,178	3.39
Unclassified	13	5.94	205,130	9.55	124	3.80	12,690	.36
Undetermined/								
Not Applicable	59	26.94	1,101,229	51.27	575	17.63	829,758	23.58
Total	219	100.00%	\$2,148,274	100.00%	3,261	100.00%	\$3,518,176	100.00%

Table No. 11(d)
BREAKDOWN OF ACT OR OMISSION BY PROPERTY CLASSIFICATION,
1983

Act or Omission	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	45	15.68%	\$ 50,529	1.98%	1,827	27.76%	\$ 5,329,896	16.55%
Misuse of Source of Ignition	58	20.21	157,781	6.17	1,107	16.82	3,041,002	9.44
Misuse of Material Ignited	18	6.27	113,063	4.42	188	2.86	1,087,823	3.38
Mechanical, Electrical Failure, Malfunction	64	22.30	333,458	13.04	1,241	18.86	4,947,591	15.36
Construction, Design or Installation Deficiency	7	2.44	25,700	1.01	139	2.11	715,867	2.22
Misuse of Equipment	6	2.09	18,250	.71	53	.81	247,973	.77
Human Failing	2	.70	490,000	19.16	740	11.24	2,727,578	8.47
Vehicle Accident	1	.33	1,000	.04	27	.41	124,703	.39
Unclassified	18	6.27	178,972	7.00	217	3.30	808,987	2.51
Undetermined Not Applicable	69	24.04	1,189,161	46.51	1,042	15.83	13,171,801	40.91
Total	287	100.00%	\$2,556,914	100.00%	6,581	100.00%	\$32,203,221	100.00%

Table No. 12
BREAKDOWN OF SOURCE OF HEAT OF IGNITION
BY PROPERTY CLASSIFICATION,
1983

Source of Heat of Ignition	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution	-	-	-	-	-	-	-	-
Equipment - Aluminum	-	-	-	-	-	-	-	-
Heating Equipment	8	7.48	7,754	.64	2	3.77	1,100	3.81
Cooking Equipment	22	20.56	164,970	13.53	2	3.77	100	.35
Smoker's Material	8	7.48	400	.03	21	39.63	1,834	6.35
Electrical Distribution	-	-	-	-	-	-	-	-
Equipment - Copper	5	4.67	1,450	.12	4	7.55	6,964	24.12
Electrical Appliance	-	-	-	-	-	-	-	-
and Equipment	4	3.74	675	.06	5	9.43	1,370	4.74
Other Appliance and	-	-	-	-	-	-	-	-
Equipment	3	2.80	250	.02	3	5.66	35	.12
Open Flame	41	38.32	673,422	55.22	9	16.98	10,475	36.28
Exposure	-	-	-	-	1	1.89	5,000	17.32
Miscellaneous	7	6.54	128,370	10.53	3	5.66	1,895	6.56
Undetermined/Unclassified	9	8.41	242,017	19.85	3	5.66	100	.35
Total	107	100.00%	\$1,219,308	100.00%	33	100.00%	\$28,873	100.00%

Table No. 13(a)
BREAKDOWN OF SOURCE OF HEAT OF IGNITION
BY PROPERTY CLASSIFICATION,
1983

Source of Heat of Ignition	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution	1	1.00	\$ 34,344	1.00	2	4.00	\$ 1,000	1.00
Equipment - Aluminum	1	1.00	1,000	1.00	1	2.00	2,000	2.00
Heating Equipment	29	29.29	1,094,344	100.00	3	6.00	1,000	1.00
Cooking Equipment	27	27.27	1,010,000	100.00	1	2.00	2,000	2.00
Smoker's Material	10	10.00	1,000,000	100.00	1	2.00	2,000	2.00
Electrical Distribution	-	-	-	-	-	-	-	-
Equipment - Copper	10	10.00	1,000,000	100.00	1	2.00	1,000	1.00
Electrical Appliance	-	-	-	-	-	-	-	-
and Equipment	10	10.00	1,000,000	100.00	1	2.00	1,000	1.00
Other Appliance and	-	-	-	-	-	-	-	-
Equipment	10	10.00	1,000,000	100.00	1	2.00	1,000	1.00
Open Flame	29	29.29	1,094,344	100.00	1	2.00	1,000	1.00
Exposure	1	1.00	1,000,000	100.00	1	2.00	1,000	1.00
Miscellaneous	1	1.00	1,000,000	100.00	1	2.00	1,000	1.00
Undetermined/Unclassified	10	10.00	1,000,000	100.00	1	2.00	1,000	1.00
Total	2,000	100.00%	\$1,010,000	100.00%	20	100.00%	\$1,000,000	100.00%

Table No. 12(b)
BREAKDOWN OF SOURCE OF HEAT OF IGNITION
BY PROPERTY CLASSIFICATION,
1983

Source of Heat of Ignition	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution								
Equipment - Aluminum	10	10.00	111,111	4.24	10	11.90	62,950	1.68
Heating Equipment	3	3.00	13,201	.50	2	2.38	-	-
Cooking Equipment	3	3.00	275	.01	2	2.38	520	.01
Smoker's Material								
Electrical Distribution								
Equipment - Copper	10	10.00	52,956	2.02	5	5.95	41,585	1.11
Electrical Appliance								
and Equipment	4	4.00	4,250	.16	8	9.52	70,857	1.90
Other Appliance and								
Equipment	5	5.00	14,300	.55	9	10.71	25,750	.70
Open Flame	34	34.00	808,711	30.85	18	21.43	174,078	4.66
Exposure	6	6.00	210,881	8.04				
Miscellaneous	5	5.00	7,025	.27	18	21.43	502,494	7.02
Undetermined/Unclassified	20	20.00	1,000,000	33.30	19	22.35	3,008,401	82.93
Total	100	100.00	\$2,621,732	100.00	84	100.00	\$3,736,723	100.00

Table No. 12(c)
BREAKDOWN OF SOURCE OF HEAT OF IGNITION
BY PROPERTY CLASSIFICATION,
1983

Source of Heat of Ignition	Industrial Storage Properties				Special Property - Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution								
Equipment - Aluminum	24	10.00	20,000	11.11	24	11.11	10,000	11.11
Heating Equipment	1	0.44	0.00	.00	24	11.11	10,000	11.11
Cooking Equipment								
Smoker's Material	1	0.44	100	.01	10	4.44	20,000	22.22
Electrical Distribution								
Equipment - Copper	10	4.44	100,000	5.56	10	4.44	100,000	11.11
Electrical Appliance								
and Equipment	10	4.44	20,000	2.22	10	4.44	20,000	22.22
Other Appliance and								
Equipment	2	0.89	2,000	.22	10	4.44	10,000	11.11
Open Flame	20	8.89	200,000	22.22	10	4.44	10,000	11.11
Exposure	10	4.44	20,000	2.22	10	4.44	10,000	11.11
Miscellaneous	10	4.44	20,000	2.22	10	4.44	10,000	11.11
Undetermined/Unclassified	24	10.00	222,000	24.44	24	11.11	222,000	24.44
Total	210	100.00	\$2,222,000	100.00	210	100.00	\$2,222,000	100.00

Table No. 12(d)
BREAKDOWN OF SOURCE OF HEAT OF IGNITION
BY PROPERTY CLASSIFICATION
1983

Source of Heat of Ignition	No.	Miscellaneous Properties			Totals of All Property Classifications			
		Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution								
Equipment - Aluminum	-	- %	\$ -	- %	4	.06%	\$ 21,800	.07%
Heating Equipment	23	8.01	165,599	6.48	608	9.24	2,846,067	8.84
Cooking Equipment	-	-	-	-	733	11.14	1,811,146	5.62
Smoker's Material	6	2.09	34,137	1.34	467	7.10	1,369,244	4.25
Electrical Distribution								
Equipment - Copper	41	14.29	178,714	6.99	534	8.11	2,696,795	8.37
Electrical Appliance								
and Equipment	15	5.23	126,400	4.94	193	2.93	932,424	2.90
Other Appliance and								
Equipment	19	6.62	126,078	4.93	358	5.44	831,203	2.58
Open Flame	90	31.36	637,954	24.95	2,418	36.75	6,383,235	19.82
Exposure	9	3.14	14,240	.56	108	1.64	381,175	1.18
Miscellaneous	10	5.57	80,472	3.15	149	2.26	922,219	2.86
Undetermined/Unclassified	68	23.69	1,193,320	46.66	1,009	15.33	14,007,913	43.51
Total	287	100.00%	\$2,556,914	100.00%	6,581	100.00%	\$32,203,221	100.00%

Table No. 13
BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,
1983

Fuel or Energy	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	11	10.28%	\$ 56,004	4.59%	2	3.77%	\$ 1,875	6.49%
Fuel Oil	1	.93	-	-	-	-	-	-
Gasoline	1	.93	-	-	1	1.89	5,000	17.32
Natural Gas	12	11.21	133,987	10.99	-	-	-	-
Propane	4	3.74	107,100	8.78	3	5.66	1,400	4.85
Smoker's Material	7	6.54	400	.03	21	39.63	1,834	6.35
Electricity	20	18.70	16,992	1.39	15	28.30	8,569	29.68
Lightning	1	.93	54,000	4.43	-	-	-	-
Unclassified	5	4.67	151,370	12.42	-	-	-	-
Undetermined/ Not Applicable	45	42.07	699,455	57.37	11	20.75	10,195	35.31
Total	107	100.00%	\$1,219,308	100.00%	53	100.00%	\$28,873	100.00%

Table No. 13(a)
BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,
1983

Fuel or Energy	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	478	19.55%	\$ 1,777,593	11.10%	2	8.00%	\$ -	- %
Fuel Oil	32	1.31	55,857	.35	1	4.00	9,961	2.82
Gasoline	17	.70	231,028	1.44	-	-	-	-
Natural Gas	35	1.43	128,736	.80	-	-	-	-
Propane	74	3.03	616,912	3.85	-	-	-	-
Smoker's Material	352	14.40	1,306,293	8.15	4	16.00	2,575	.73
Electricity	939	38.40	4,335,340	27.06	11	44.00	261,730	74.05
Lightning	25	1.02	127,754	.80	-	-	-	-
Unclassified	69	2.82	416,388	2.60	-	-	-	-
Undetermined/ Not Applicable	424	17.34	7,023,890	43.85	7	28.00	79,162	22.40
Total	2,445	100.00%	\$16,019,791	100.00%	25	100.00%	\$353,428	100.00%

Table No. 13(b)
BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,
1983

Fuel or Energy	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	12	12.00%	\$ 74,002	2.82%	11	13.10%	\$ 65,400	1.75%
Fuel Oil	2	2.00	28,250	1.08	6	7.14	36,000	.96
Gasoline	7	7.00	436,786	16.66	-	-	-	-
Natural Gas	5	5.00	68,135	2.60	7	8.33	25,050	.67
Propane	6	6.00	169,654	6.47	5	5.95	15,850	.42
Smoker's Material	3	3.00	275	.01	2	2.38	520	.01
Electricity	19	19.00	48,534	1.85	23	27.38	186,557	5.00
Lightning	2	2.00	125	-	1	1.19	14,000	.37
Unclassified	8	8.00	52,466	2.00	3	3.57	114,794	3.07
Undetermined/ Not Applicable	36	36.00	1,743,505	66.51	26	30.96	3,278,554	87.75
Total	100	100.00%	\$2,621,732	100.00%	84	* 100.00%	\$3,736,725	100.00%

Table No. 13(c)
BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,
1983

Fuel or Energy	Industrial Storage Properties				Special Property - Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	35	15.98%	\$ 121,700	5.67%	206	6.32%	\$ 368,229	10.47%
Fuel Oil	8	3.65	132,732	6.18	86	2.64	92,183	2.62
Gasoline	2	.91	7,875	.37	180	5.52	602,440	17.12
Natural Gas	1	.46	-	-	-	-	-	-
Propane	6	2.74	23,830	1.11	50	1.53	98,132	2.79
Smoker's Material	3	1.37	300	.01	72	2.21	22,628	.64
Electricity	34	15.53	211,168	9.83	362	11.10	482,242	13.71
Lightning	2	.91	25,800	1.20	3	.09	100	-
Unclassified	11	5.02	208,189	9.69	26	.80	62,010	1.76
Undetermined/ Not Applicable	117	53.43	1,416,680	65.94	2,276	69.79	1,790,212	50.89
Total	219	100.00%	\$2,148,274	100.00%	3,261	100.00%	\$3,518,176	100.00%

Table No. 13(d)
BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,
1983

Fuel or Energy	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	36	12.54%	\$ 168,682	6.60%	793	12.05%	\$ 2,633,485	8.18%
Fuel Oil	8	2.79	43,700	1.71	144	2.19	398,683	1.24
Gasoline	16	5.57	38,160	1.49	224	3.40	1,321,289	4.10
Natural Gas	2	.70	-	-	62	.94	355,908	1.11
Propane	7	2.44	504,450	19.73	155	2.36	1,537,328	4.77
Smoker's Material	7	2.44	39,137	1.53	471	7.16	1,373,962	4.27
Electricity	57	19.86	266,589	10.43	1,480	22.49	5,817,721	18.07
Lightning	8	2.79	68,472	2.68	42	.64	290,251	.90
Unclassified	7	2.44	121,260	4.74	129	1.96	1,126,477	3.50
Undetermined/ Not Applicable	139	48.43	1,306,464	51.09	3,081	46.81	17,348,117	53.86
Total	287	100.00%	\$2,556,914	100.00%	6,581	100.00%	\$32,203,221	100.00%

Table No. 14
BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,
1983

Material First Ignited	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component,								
Finish Material	15	14.02%	\$ 374,829	30.74%	1	1.89%	\$ 860	2.98%
Furniture, Furnishing	6	5.61	670	.05	15	28.30	2,619	9.07
Clothing, Textile	4	3.74	2,180	.18	5	9.43	1,025	3.55
Wood, Paper Product	24	22.43	64,225	5.27	10	18.88	1,875	6.49
Flammable Liquid	19	17.76	389,729	31.96	3	5.66	5,100	17.66
Flammable Gas	1	.93	100	.01	-	-	-	-
Chemical	2	1.87	72,025	5.91	2	3.77	420	1.45
Agricultural, Forest Product	1	.93	25	-	2	3.77	10,000	34.64
Miscellaneous	21	19.63	9,155	.75	15	28.30	6,974	24.16
Undetermined/Unclassified	14	13.08	306,370	25.13	-	-	-	-
Total	107	100.00%	\$1,219,308	100.00%	53	100.00%	\$28,873	100.00%

Table No. 14(a)
BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,
1983

Material First Ignited	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component,								
Finish Material	375	15.34%	\$ 2,170,006	13.55%	5	20.00%	\$210,730	59.62%
Furniture, Finishing	552	22.59	2,093,881	13.07	1	4.00	45,000	12.73
Clothing, Textile	83	3.39	392,100	2.45	-	-	-	-
Wood, Paper Product	203	8.30	1,070,108	6.68	4	16.00	78,462	22.20
Flammable Liquid	524	21.43	1,752,659	10.94	1	4.00	-	-
Flammable Gas	16	.65	800,382	5.00	-	-	-	-
Chemical	37	1.51	110,269	.69	1	4.00	2,000	.57
Agricultural, Forest Product	22	.90	45,478	.28	-	-	-	-
Miscellaneous	367	15.01	1,164,613	7.27	11	44.00	16,436	4.65
Undetermined/Unclassified	266	10.88	6,420,295	40.07	2	8.00	800	.23
Total	2,445	100.00%	\$16,019,791	100.00%	25	100.00%	\$353,428	100.00%

Table No. 14(b)
BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,
1983

Material First Ignited	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component,								
Finish Material	9	9.00%	\$ 41,347	1.58%	8	9.52%	\$ 70,250	1.88%
Furniture, Furnishing	5	5.00	153,050	5.84	3	3.57	10,520	.28
Clothing, Textile	3	3.00	9,175	.35	4	4.76	20,100	.54
Wood, Paper Product	22	22.00	208,938	7.97	19	22.63	99,850	2.67
Flammable Liquid	18	18.00	584,008	22.28	9	10.71	5,257	.14
Flammable Gas	3	3.00	2,200	.08	1	1.19	300	.01
Chemical	2	2.00	3,010	.11	2	2.38	5,125	.14
Agricultural, Forest Product	4	4.00	6,929	.26	8	9.52	12,496	.33
Miscellaneous	14	14.00	11,280	.43	14	16.67	153,097	4.10
Undetermined/Unclassified	20	20.00	1,601,795	61.10	16	19.05	3,359,730	89.91
Total	100	100.00%	\$2,621,732	100.00%	84	100.00%	\$3,736,725	100.00%

Table No. 14(c)
BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,
1983

Material First Ignited	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component,								
Finish Material	28	12.79%	\$ 167,890	7.82%	15	.46%	\$ 27,850	.79%
Furniture, Furnishing	12	5.48	35,644	1.66	75	2.30	49,440	1.41
Clothing, Textile	2	.91	300	.01	21	.64	19,281	.55
Wood, Paper Product	32	14.61	101,364	4.72	118	3.62	288,174	8.19
Flammable Liquid	15	6.85	220,272	10.25	191	5.86	624,921	17.76
Flammable Gas	3	1.37	5,400	.25	25	.77	52,051	1.48
Chemical	2	.91	-	-	24	.74	73,250	2.08
Agricultural, Forest Product	16	7.31	200,589	9.34	1,013	31.06	744,384	21.16
Miscellaneous	44	20.09	221,103	10.29	1,419	43.51	597,114	16.97
Undetermined/Unclassified	65	29.68	1,195,712	57.66	360	11.04	1,041,711	29.61
Total	219	100.00%	\$2,148,274	100.00%	3,261	100.00%	\$3,518,176	100.00%

Table No. 14(d)
BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,
1983

Material First Ignited	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component,								
Finish Material	17	5.92%	\$ 157,942	6.18%	473	7.19%	\$ 3,221,704	10.00%
Furniture, Furnishing	4	1.39	5,100	.20	673	10.23	2,395,924	7.44
Clothing, Textile	4	1.39	14,370	.56	126	1.91	458,531	1.42
Wood, Paper Product	15	5.23	70,057	2.74	447	6.79	1,983,053	6.16
Flammable Liquid	7	2.44	33,868	1.32	787	11.96	3,615,814	11.23
Flammable Gas	3	1.05	501,450	19.61	52	.79	1,361,883	4.23
Chemical	3	1.05	267	.01	75	1.14	266,366	.83
Agricultural, Forest Product	121	42.16	398,430	15.58	1,187	18.04	1,418,331	4.40
Miscellaneous	46	16.03	111,006	4.34	1,951	29.64	2,290,778	7.11
Undetermined/Unclassified	67	23.34	1,264,424	49.46	810	12.31	15,190,837	47.18
Total	287	100.00%	\$2,556,914	100.00%	6,581	100.00%	\$32,203,221	100.00%

Table No. 15

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA,

1983

Municipal Code	Name	No. of Fires	Amount of Loss
001	R.M. of Albert	2	\$ 15,100
002	Town of Altona	9	37,454
003	Village of Arborg	10	16,640
005	R.M. of Argyle	2	10,125
006	R.M. of Arthur	2	1,900
010	Town of Beausejour	12	308,900
011	Village of Benito	1	602
012	R.M. of Bifrost	27	138,167
013	Village of Binscarth	1	-
014	R.M. of Birtle	11	89,977
015	Town of Birtle	4	14,000
016	R.M. of Blanshard	4	11,082
017	Town of Boissevain	5	5,000
018	R.M. of Boulton	3	39,536
019	Village of Bowsman	2	-
020	City of Brandon	230	1,721,517
021	R.M. of Brenda	3	80,000
022	R.M. of Brokenhead	38	39,304
023	Department of Government Services	4	2,075
027	Town of Carberry	3	10
028	Town of Carman	5	10,431
029	R.M. of Cartier	22	189,488
030	Village of Cartwright	1	60
032	R.M. of Clanwilliam	3	36,675
033	R.M. of Coldwell	3	71,250
034	R.M. of Cornwallis	18	59,155
035	Village of Crystal City	1	316
038	R.M. of Daly	5	52,366
039	R.M. of Dauphin	18	53,632
040	Town of Dauphin	31	169,795
041	Town of Deloraine	1	90,000
042	R.M. of De Salaberry	14	257,165
043	R.M. of Dufferin	18	187,682
044	Village of Dunnottar	5	4,500
045	Village of Darlingford	1	25,000
048	R.M. of East St. Paul	18	118,976
049	R.M. of Edward	1	1,350
050	Village of Elkhorn	1	-
051	R.M. of Ellice	1	6,948
052	R.M. of Elton	7	388
053	Town of Emerson	1	521
054	Village of Erickson	4	-
055	R.M. of Eriksdale	10	143,567
056	R.M. of Ethelbert	7	74,960
057	Village of Ethelbert	4	-
060	City of Flin Flon	53	293,284
063	R.M. of Franklin	21	31,611
066	Village of Garson	1	25,000
067	R.M. of Gilbert Plains	7	54,888
068	Village of Gilbert Plains	3	120,975
069	R.M. of Gimli	7	23,900
070	Town of Gimli	2	400
071	Town of Gladstone	3	11,200
073	R.M. of Glenella	1	4,900
074	R.M. of Glenwood	3	20,000
075	R.M. of Grandview	1	-

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA,

1983

Municipal Code	Name	No. of Fires	Amount of Loss
076	Town of Grandview	2	\$ 3,953
077	Village of Grand Marais	7	98,618
078	Village of Gretna	3	200
079	R.M. of Grey	16	28,540
082	R.M. of Hamiota	5	-
083	Village of Hamiota	4	4,368
084	R.M. of Hanover	44	432,220
086	Town of Hartney	1	1,100
087	R.M. of Hillsburg	1	11,000
090	Town of Killarney	12	14,600
093	R.M. of La Broquerie	6	555,000
094	R.M. of Lac du Bonnet	20	273,847
095	Village of Lac du Bonnet	6	110,300
096	R.M. of Lakeview	4	26,580
097	R.M. of Langford	8	6,380
098	R.M. of Lansdowne	5	21,828
099	R.M. of Lawrence	8	61,048
100	R.M. of Lorne	4	18,000
101	R.M. of Louise	1	25,000
102	Village of Lowe Farm	1	-
103	Village of Letellier	1	250
104	R.M. of MacDonald	37	176,720
107	R.M. of McCreary	3	15,815
108	Village of McCreary	1	450
111	Town of Melita	3	25,555
112	R.M. of Miniota	11	9,139
113	R.M. of Minitonas	6	40,429
114	Village of Minitonas	1	-
115	Town of Minnedosa	4	64,269
116	R.M. of Minto	2	6,600
117	R.M. of Montcalm	14	34,901
118	Town of Morden	14	14,324
119	R.M. of Morris	23	261,019
120	Town of Morris	9	10,191
121	R.M. of Morton	5	35,500
122	R.M. of Mossey River	3	3,146
123	U.V.D. of Newdale	1	-
124	Village of Napinka	1	1,000
125	Town of Neepawa	11	55,043
126	Village of Niverville	3	12,192
127	R.M. of North Cypress	23	126,967
128	Village of Ninette	2	-
129	R.M. of North Norfolk	7	69,903
134	R.M. of Oakland	6	3,860
135	R.M. of Ochre River	2	22,850
136	R.M. of Odanah	3	844
137	Village of Onanole	2	-
140	R.M. of Pembina	9	85,850
142	R.M. of Pipestone	5	27,450
144	R.M. of Portage la Prairie	12	125,950
145	City of Portage la Prairie	24	748,626
149	Town of Rapid City	1	500
150	R.M. of Rhineland	27	234,308
151	R.M. of Ritchot	19	105,334
152	Town of Rivers	2	20,100
153	R.M. of Riverside	4	27,000

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA,
1983

Municipal Code	Name	No. of Fires	Amount of Loss
154	Village of Riverton	10	\$ 300
155	R.M. of Roblin	7	10,267
156	Town of Roblin	7	5,717
157	R.M. of Rockwood	39	151,113
158	R.M. of Roland	5	25,960
159	R.M. of Rosedale	9	30,530
160	R.M. of Rossburn	2	29,906
161	Village of Rossburn	2	500
162	R.M. of Rosser	3	21,750
163	R.M. of Russell	8	14,179
166	Village of Rosenort	1	1,500
167	R.M. of St. Andrews	53	245,046
168	R.M. of Ste. Anne	14	165,016
169	Village of Ste. Anne	5	14,380
171	Village of St. Claude	1	500
172	R.M. of St. Clements	21	112,815
173	R.M. of St. Francois Xavier	5	8,230
174	Village of St. Malo	12	59,954
175	R.M. of St. Laurent	43	28,518
176	Village of St. Lazare	1	10,798
177	Village of St. Pierre Jolys	3	35,585
178	R.M. of Ste. Rose	9	15,243
179	Village of Ste. Rose du Lac	10	6,741
180	U.V.D. of Sprague	1	876
181	Village of Sandy Lake	1	-
182	R.M. of Saskatchewan	3	24,000
183	Town of Selkirk	63	52,844
184	R.M. of Shellmouth	11	7,426
185	R.M. of Shell River	10	185,825
186	R.M. of Shoal Lake	9	230,640
187	Village of Shoal Lake	2	10,000
188	R.M. of Sifton	4	14,430
189	R.M. of Siglunes	1	-
190	R.M. of Silver Creek	6	66,525
191	Village of Somerset	4	56,300
192	Town of Souris	3	10,935
193	R.M. of South Cypress	2	18,250
194	R.M. of South Norfolk	2	31,868
195	R.M. of Springfield	116	396,527
196	R.M. of Stanley	21	199,275
197	Town of Steinbach	16	33,141
198	Town of Stonewall	10	30,349
199	R.M. of Strathclair	9	55,500
200	R.M. of Strathcona	2	9,500
201	R.M. of Swan River	24	103,345
202	Town of Swan River	24	557,691
203	Village of Stony Mountain	1	100
204	Village of Sperling	1	300
205	R.M. of Tache	22	380,100
206	Village of Teulon	3	7,245
207	Town of The Pas	49	505,032
208	R.M. of Thompson	3	31,671
209	City of Thompson	113	397,875
211	Village of Treherne	3	160,247
212	R.M. of Turtle Mountain	9	21,816
217	R.M. of Victoria Beach	6	-

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA,

1983

Municipal Code	Name	No. of Fires	Amount of Loss
218	Town of Virden	16	\$ 96,741
221	R.M. of Wallace	20	468,206
223	Village of Wawanesa	1	100
224	R.M. of Westbourne	20	62,488
226	R.M. of West St. Paul	28	182,930
227	R.M. of Whitehead	5	30,000
228	R.M. of Whitemouth	16	74,750
229	R.M. of Whitewater	3	57,807
230	R.M. of Winchester	3	2,050
231	Town of Winkler	9	990,500
232	City of Winnipeg	4,084	12,715,270
233	Town of Winnipeg Beach	9	700
234	Village of Winnipegosis	14	41,647
235	R.M. of Woodlands	9	106,514
236	R.M. of Woodworth	4	2,403
238	L.G.D. of Alexander	28	191,432
240	L.G.D. of Alonsa	13	51,856
242	L.G.D. of Armstrong	9	126,958
244	L.G.D. of Churchill	9	395,000
246	L.G.D. of Consol	4	73,509
248	L.G.D. of Fisher	49	57,581
250	L.G.D. of Gillam	3	77,122
252	L.G.D. of Grahamdale	7	208,350
254	L.G.D. of Grand Rapids	5	12,100
255	Bissett	2	7,500
256	Town of Leaf Rapids	6	22,410
258	L.G.D. of Lynn Lake	6	68,550
259	Stevenson Island	1	-
260	L.G.D. of Mountain	6	238,664
262	L.G.D. of Mystery Lake	5	23,625
264	L.G.D. of Park	15	85,600
265	Meadow Portage	7	1,050
266	L.G.D. of Pinawa	18	87,900
268	L.G.D. of Piney	9	193,008
269	Dallas/Red Rose	1	-
270	L.G.D. of Reynolds	9	175,883
271	Cross Lake	2	-
272	Town of Snow Lake	3	3,400
273	Dakota Ojibway Tribal Council	17	149,350
274	L.G.D. of Stuartburn	8	271,124
277	Waterhen	4	1,815
278	Cranberry Portage	8	34,844
279	Thicket Portage	2	110,000
283	Easterville	2	201,400
284	Ilford	1	-
285	Mallard	1	600
288	Pikwitonei	1	-
290	Sherridon	2	-
291	Duck Bay	2	-
292	Barrows/Powell/Westgate/National Mills/Red Deer Lake	1	-
293	Cormorant	1	-
295	Manigotagan	1	110,027
296	Moose Lake	1	5,000
297	Norway House	3	18,900
298	South Indian Lake	3	87,500
299	Wabowden	3	23,100
300	Miscellaneous	104	931,337
Total		6,581	\$32,203,221

Table No. 16
1983 FIRES CAUSING THREE OR MORE FATALITIES

Date	Location	Occupancy	Cause	Fatality Breakdown			Total
				Men	Women	Children	
83 01 14	R.M. of Woodlands	Mobile Home	Undetermined	-	1	2	3
83 01 16	Winnipeg	Dwelling	Careless smoking	1	1	2	4
83 11 30	Thompson	Duplex	Children playing with matches	1	-	2	3
83 12 25	Little Grand Rapids Reserve	Dwelling	Children playing with matches	1	-	2	3
83 12 29	R.M. of Lac du Bonnet	Dwelling	Still under investigation	1	1	1	3

Table No. 17
1983 FIRE LOSSES EXCEEDING \$250,000

Date	Location	Occupancy	Reported Cause	Amount of Loss
83 01 15	The Pas	Saw Mill	Undetermined	\$ 400,000*
83 02 23	Winnipeg	Industrial Manufacturing	Undetermined	1,068,916
83 03 27	Brandon	Mercantile/Residential	Undetermined — accidental	815,706
83 03 31	Winnipeg	Industrial Storage	Undetermined — accidental	421,562*
83 04 04	Winkler	Industrial Manufacturing	Undetermined — accidental	934,000*
83 05 08	Portage la Prairie	Hotel	Accidental	605,000*
83 05 22	Winnipeg	Mercantile	Incendiary	302,886*
83 06 05	Swan River	Mercantile/Residential	Undetermined	293,005*
83 06 29	R.M. of La Broquerie	Barn	Accidental	476,677
83 09 27	Beausejour	Mercantile	Undetermined	300,000*
83 10 12	R.M. of Wallace	Cement Plant	Undetermined — accidental	403,000*
83 11 20	Churchill	Hotel	S.U.I.	295,000*
83 11 27	Brandon	Mercantile	Undetermined	440,000*

*Estimated loss
S.U.I. — Still under investigation

THE UNIVERSITY OF CHICAGO DEPARTMENT OF CHEMISTRY RECORD OF RESEARCH AND TEACHING

Name		Address		City		State		Country	
1. Name		2. Address		3. City		4. State		5. Country	
6. Date of birth		7. Date of death		8. Date of arrival		9. Date of departure		10. Date of return	
11. Name of institution		12. Name of institution		13. Name of institution		14. Name of institution		15. Name of institution	
16. Name of institution		17. Name of institution		18. Name of institution		19. Name of institution		20. Name of institution	
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36. Name of institution		37. Name of institution		38. Name of institution		39. Name of institution		40. Name of institution	
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66. Name of institution		67. Name of institution		68. Name of institution		69. Name of institution		70. Name of institution	
71. Name of institution		72. Name of institution		73. Name of institution		74. Name of institution		75. Name of institution	
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86. Name of institution		87. Name of institution		88. Name of institution		89. Name of institution		90. Name of institution	
91. Name of institution		92. Name of institution		93. Name of institution		94. Name of institution		95. Name of institution	
96. Name of institution		97. Name of institution		98. Name of institution		99. Name of institution		100. Name of institution	

Section II

Investigation Section

Section II

Investigation Section

Table No. 18
INVESTIGATIONS CONDUCTED UNDER THE FIRES PREVENTION ACT,
1983

Area	Number of Investigations Conducted
Fire Commissioner's Staff ¹	450
Urban Police Forces	220
R.C.M.P.	209
	879
Metro Winnipeg	483
Urban Areas	60
Rural Areas	336
	879

¹In co-operation with local authorities

Table No. 19
FINDINGS OF INVESTIGATIONS CONDUCTED UNDER
THE FIRES PREVENTION ACT,
1983

Cause of Fire	Number
Accidental	464
Incendiary	119
Vandalism	56
Undetermined — Accidental	203
— Suspicious	32
Still Under Investigation	5
Total	879

Table No. 20
DISPOSITION OF INVESTIGATIONS RELATED TO INCENDIARY FIRES,
1983

Disposition	Number
Insufficient Evidence for Charges to be laid at End of 1983	31
Charges — Adults	66
— Juveniles	13
Convictions — Adults	13
— Juveniles	3
Charges stayed or Withdrawn	22
Juveniles Warned	69
Adjourned "Sine Die"	1
Acquittals	-
Charges Dismissed	3
Absolute Discharge	-
Conditional Discharge	1
Cleared Otherwise	-
Under Investigation	-
Suicide by Arson	1
Attempted Suicide by Arson	2
Murder by Arson	-
Detained for Psychiatric Examination	-
Death by Incendiarism	1
Conviction on Other Offenses Related to Fire Incidents	3
No Charges Laid Due to Mental Illness	1
Warrants Issued	2
Court Cases Pending at End of 1983	42*

*Six court cases pending prior to 1983.

Table No. 21
SEMINARS CONDUCTED BY THE FIRE INVESTIGATION SECTION¹,
1983

Course	Number Held	Attendance
Fire Cause Determination and Arson Detection Seminar	6	218
Manitoba Police Officers Fire Investigation Seminar	1	33
Total	7	251

¹These courses were held to assist local police and fire services personnel in the identification of cause, origin and circumstances surrounding fire.

Section III

Fire Prevention Section

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Medical Research	1
Medical Literature	1
Medical Statistics	1
Medical Economics	1
Medical Sociology	1
Medical Psychology	1
Medical Jurisprudence	1
Medical History	1
Medical Geography	1
Medical Climatology	1
Medical Botany	1
Medical Zoology	1
Medical Microbiology	1
Medical Pathology	1
Medical Therapeutics	1
Medical Hygiene	1
Medical Dietetics	1
Medical Gynecology	1
Medical Pediatrics	1
Medical Dermatology	1
Medical Ophthalmology	1
Medical Otorhinolaryngology	1
Medical Neurology	1
Medical Psychiatry	1
Medical Radiology	1
Medical Surgery	1
Medical Obstetrics	1
Medical Urology	1
Medical Endocrinology	1
Medical Immunology	1
Medical Pharmacology	1
Medical Toxicology	1
Medical Forensic Science	1
Medical Anthropology	1
Medical Linguistics	1
Medical Literature	1
Medical Statistics	1
Medical Economics	1
Medical Sociology	1
Medical Psychology	1
Medical Jurisprudence	1
Medical History	1
Medical Geography	1
Medical Climatology	1
Medical Botany	1
Medical Zoology	1
Medical Microbiology	1
Medical Pathology	1
Medical Therapeutics	1
Medical Hygiene	1
Medical Dietetics	1
Medical Gynecology	1
Medical Pediatrics	1
Medical Dermatology	1
Medical Ophthalmology	1
Medical Otorhinolaryngology	1
Medical Neurology	1
Medical Psychiatry	1
Medical Radiology	1
Medical Surgery	1
Medical Obstetrics	1
Medical Urology	1
Medical Endocrinology	1
Medical Immunology	1
Medical Pharmacology	1
Medical Toxicology	1
Medical Forensic Science	1
Medical Anthropology	1
Medical Linguistics	1

Section II

The Transition Section

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Medical Statistics	1
Medical Economics	1
Medical Sociology	1
Medical Psychology	1
Medical Jurisprudence	1
Medical History	1
Medical Geography	1
Medical Climatology	1
Medical Botany	1
Medical Zoology	1
Medical Microbiology	1
Medical Pathology	1
Medical Therapeutics	1
Medical Hygiene	1
Medical Dietetics	1
Medical Gynecology	1
Medical Pediatrics	1
Medical Dermatology	1
Medical Ophthalmology	1
Medical Otorhinolaryngology	1
Medical Neurology	1
Medical Psychiatry	1
Medical Radiology	1
Medical Surgery	1
Medical Obstetrics	1
Medical Urology	1
Medical Endocrinology	1
Medical Immunology	1
Medical Pharmacology	1
Medical Toxicology	1
Medical Forensic Science	1
Medical Anthropology	1
Medical Linguistics	1

Table No. 22
INSPECTIONS BY CLASS OF PROPERTY UNDER
THE FIRES PREVENTION ACT,
1983

Class of Property	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at time of Inspection
Schools	32	19	117	11
Churches	2	-	21	-
Public Assembly	12	1	55	5
Care for the Aged	123	5	591	21
Hospitals	40	15	263	43
Staff Residences	1	-	5	-
Halls, Arenas and Rinks	14	6	61	16
Hotels and Motels	11	6	188	6
Apartments	45	23	138	179
Commercial Buildings	10	2	121	19
Dwellings	5	-	25	3
Garages	9	1	26	2
Day Care	141	5	404	36
Unclassified	65	7	341	-
Total	510	90	2,356	341

Table No. 23
REQUIREMENTS ISSUED FOR
CORRECTION OR REMOVAL OF HAZARDS BY TYPE,
1983

Type of Hazard	Number
Heating Equipment	152
Electrical	82
Flammable Liquids	175
Gas Hazards	16
Spontaneous Heating	11
Housekeeping	300
Storage	318
Exits and Alternate Means of Egress	239
Exit Lights	175
Fire Alarm Systems	179
Interior Finish	50
Fire Spread Barriers	60
Fire Doors and Windows	32
Fire Extinguishers	340
Miscellaneous	227

Table No. 24
INSPECTIONS CONDUCTED UNDER THE FIRES PREVENTION ACT
BY LOCAL FIRE PREVENTION OFFICERS¹,
1983

Community	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at Time of Inspection
Anama Bay ²	3	-	20	-
Arborg	106	-	224	-
Beausejour	15	-	17	-
Belmont	5	-	22	-
Dauphin	295	-	219	-
East St. Paul, R.M.	20	-	15	-
Edward, R.M.	14	-	-	14
Flin Flon	157	-	274	4
Grunthal	1	-	8	-
Homebrook ²	8	-	11	-
Ile Des Chenes	3	-	4	-
La Broquerie	23	-	7	-
Lac du Bonnet	25	-	18	-
Lorette	10	-	13	-
Melita	40	-	13	21
Minto	13	-	22	-
Napinka	10	-	-	10
Neepawa	46	-	58	-
Niverville	67	-	136	-
Oak Lake	2	-	9	-
Pipestone, R.M.	120	-	217	35
Seymourville ²	23	-	34	-
Snow Lake	34	-	35	-
Sprague	2	-	-	-
Springfield, R.M.	13	-	6	-
Souris, R.M. Edward	48	-	32	-
St. Adolphe	7	-	8	-
St. Malo	6	-	7	-
Thompson	493	205	1,380	10
Wallace and District	426	-	545	42
Wawanesa	1	-	1	-
Whitemouth	25	-	24	-
Winnipeg Beach	60	-	175	-
Total	2,121	205	3,554	136

¹The Municipal Fire Prevention Program was made available to all fire departments in the Fall of 1982. The purpose of this program is to increase public awareness of potential fire hazards through annual inspections.

²Remote northern communities

Table No. 25
FIRE PREVENTION EDUCATIONAL ACTIVITIES,
1983

Type of Activity	Number Held
MEETINGS:	
Administrators of Institutions	17
Administrators and/or Maintenance Personnel	5
Building Inspectors	4
Commercial and/or Industrial	1
Fire Departments	21
Governmental	52
Municipal Fire Prevention Officers	1
School or School Division Officials	1
Unclassified	35
CONSULTATIONS:	
Administrators of Institutions	41
Building Inspectors	13
Commercial and/or Industrial	21
Day Care Administrators/Co-ordinators	45
Fire Chiefs	92
Governmental	41
Municipal Fire Prevention Officers	11
Mutual Aid Fire Prevention Officers	2
School or School Division Officials	27
Unclassified	35
MISCELLANEOUS:	
Film and/or Slide Showings	-
Fire Drills and/or Evacuations	12
Lecture Presentations	7
Unclassified	3

Table No. 26
ENGINEERING AND TECHNICAL SERVICES ACTIVITIES¹,
1983

Class of Property ²	Type of Activity		
	Plans Examined	Reports Issued	On Site Inspections
Assembly	40	39	54
Institutional	100	39	48
Residential	15	14	9
Mercantile and Personal Services	6	4	6
Industrial	93	92	44
Miscellaneous	43	11	13
Total	297	199	174

¹This unit has conducted 226 meetings and 2,304 consultations.

²The classes are defined in The Manitoba Building Code.

THE JOURNAL OF THE
ROYAL ANTHROPOLOGICAL INSTITUTE
OF GREAT BRITAIN AND IRELAND

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Section IV

Fire Training Section

Section IV

The Training Section

Table No. 27
EDUCATIONAL AND TRAINING ACTIVITIES UNDER
THE FIRE TRAINING SECTION,
1983

Type of Activity	Number Held	Attendance
MEETINGS:		
Fire Departments	46	197
Fire Service Instructors	2	5
Governmental	52	331
Institutional Board Meetings	12	47
Mutual Aid	76	1,205
Uniform Training Program	7	36
Special Projects	96	1,233
CONSULTATIONS:		
Administrators of Institutions	49	67
Commercial and/or Institutional	98	116
Fire Chiefs	865	1,086
Fire Prevention Officers	65	94
Fire Service Instructors	83	85
Governmental	243	289
Municipal Fire Prevention Officers	5	7
Mutual Aid Officers	8	10
School or School Division Officials	32	111
TRAINING:		
Commercial and/or Industrial	4	124
Fire Departments	63	1,031
Hospital Staffs	34	638
Mutual Aid	7	190
Nursing Home Staffs	13	285
Other Institutional Staffs	5	99
Uniform Training Program	4	33
Special Projects	22	571
MISCELLANEOUS:		
Film and/or Slide Showings	-	-
Fire Apparatus Specifications	8	n/a
Fire Drills and/or Evacuations	2	125
Fire Protection Surveys	-	n/a
Pumper Tests	3	n/a

Table No. 28
INSPECTIONS CONDUCTED BY STAFF UNDER
THE NORTHLANDS AGREEMENT¹,
1983

Class of Property	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at Time of Inspection
Dwellings, Outbuildings and Commercial Structures	284	246	830	Nil

¹Part of a special fire protection program conducted in northern communities in co-operation with the Provincial Department of Northern Affairs. The program is established under a Federal-Provincial agreement, and is not funded under the provisions of The Fires Prevention Act.

Table No. 29
EDUCATIONAL AND TRAINING ACTIVITIES UNDER
THE NORTHLANDS AGREEMENT,
1983

Type of Activity	Number Held	Attendance
MEETINGS:		
Fire Departments	37	285
Fire Service Instructors	1	2
Governmental	26	116
Institutional Board Meetings	1	3
Mutual Aid	6	55
Uniform Training Program	-	-
Special Projects	14	51
CONSULTATIONS:		
Administrators of Institutions	14	50
Commercial and/or Institutional	8	22
Fire Chiefs	175	342
Fire Prevention Officers	25	42
Fire Service Instructors	13	25
Governmental	120	367
Municipal Fire Prevention Officers	4	5
School and/or School Division Officials	9	49
TRAINING:		
Commercial and/or Industrial	2	39
Fire Departments	109	929
Hospital Staffs	9	100
Mutual Aid	1	9
Nursing Home Staffs	-	-
Other Institutional Staffs	2	14
Uniform Training Program	6	30
Special Projects	6	135
MISCELLANEOUS:		
Film and/or Slide Showings	20	493
Fire Apparatus Specifications	-	n/a
Fire Drills and/or Evacuations	5	987
Fire Protection Surveys	5	n/a
Pumper Tests	4	n/a

Table No. 30
FIRE COLLEGE ACTIVITIES¹,
1983

Courses	Number Held	Attendance
Anhydrous Ammonia Seminar	4	138
Basic Fire Fighting Practices (Regional Schools) ²	29	398
Building Familiarization and Evacuation Seminar for Senior Citizens ³	1	26
Care Institutional Fire Safety and Instructors Courses	1	5
Care Institutional Training	76	1,859
Command and Control of Dangerous Goods	43	643
Extinguishers Seminar	2	41
Fire Control Seminar ²	3	25
Fire Fighting Strategy	5	51
Fire Prevention and Inspector School		
Introduction	8	141
Level I	7	84
Level II	1	11
Level III	3	29
Fire Prevention and Inspection Dangerous Goods	1	11
Fire Service Instructors School		
Introduction	1	11
Level I ²	6	52
Level II	1	9
Level III	1	9
Introduction to Fire Department Management	1	10
Fire Department Management	1	9
Hotel Fire Safety	1	27
Portable Fire Extinguishers	1	24
Pump Operators ²	8	91
Rural Fire Fighting Tactics Seminar	1	11
Search and Rescue ²	7	115
Vehicle Extrication	5	134
Total	218	3,964

¹The courses held at the Manitoba Fire College are aimed at instructing local fire department officers, institutional and government staffs of potential fire hazards and understanding the application of the Manitoba Fire Code so that a reasonable degree of safety to the occupants in existing buildings is provided as well as providing fire safety plans.

²These courses were also attended by members of fire departments situated in remote northern communities.

³The course was held to familiarize the senior citizen residents of the new facility with evacuation planning; use of fire extinguishers and fire prevention in general.

Section V

Lending Library

THE UNIVERSITY OF CHICAGO
LIBRARY

THE UNIVERSITY OF CHICAGO
LIBRARY
1207 EAST 58TH STREET
CHICAGO, ILLINOIS 60637
TEL: 773-936-5000
FAX: 773-936-5001
WWW.CHICAGO.LIBRARY.EDU

THE UNIVERSITY OF CHICAGO
LIBRARY
1207 EAST 58TH STREET
CHICAGO, ILLINOIS 60637

Section V

THE UNIVERSITY OF CHICAGO
LIBRARY

Binding Library

THE UNIVERSITY OF CHICAGO
LIBRARY
1207 EAST 58TH STREET
CHICAGO, ILLINOIS 60637

BOOKS AVAILABLE FROM THE FIRE COMMISSIONER'S LENDING LIBRARY

The Books listed here are available without charge for a three week time limit, from Room 510 Norquay Building, 401 York Avenue, Winnipeg, Manitoba, Telephone 944-3322.

America Burning
An Introduction to the Fire Service
— Volume I
An Introduction to the Fire Service
— Volume II
An Unlikely Fire Master
A Personnel Manual for Volunteer Fire Companies
A Study of The Baptist Towers Housing for The Elderly Fire

Breathing Apparatus for the Fire Service
Campus Fire Safety

Disasters

Effectiveness of Various Bridging Methods
Elementary Science Applied to the Fire Service

Fire and You
Fire Apparatus Maintenance
Fire Attack I
Fire Attack II
Fire Behaviour and Sprinklers
Fire Department Fog Nozzels
Fire Department Terminology — 4th Edition
Fireground Tactics
Fire In America!
Fire In The United States
Fire Officer's Guide to Dangerous Chemicals — 2nd Edition
Fire Safety in the Home
Fire School Text Book (Winnipeg Fire Department) Volume I
Fire School Text Book (Winnipeg Fire Department) Volume II
Fire School Text Book (Winnipeg Fire Department) Volume III
Fire School Text Book (Winnipeg Fire Department) Volume IV
Fire Service First Aid Practices — 4th Edition
Fire Service Hydraulics — 2nd Edition
Fire Service Ground Ladder Practices — 7th Edition
Fire Service Management
Fire Service Practices for the Volunteer Fire Department — 4th Edition
Fire Service Training — Black Book
Fire Service Training — Red Book (Workbook)
Fire Terminology
Fighting Rural Fires — 1st Edition
Forcible Entry, Rope and Portable Extinguishing Practices — 3rd Edition

Handling Hose and Ladders

Industrial Fire Brigades
Intercom — II
Intercom — IV
Intercom — V
Intercom — VI
Intercom — VII

Leadership in the Fire Service
Life Safety Code No. 101

Manning for Fire Attack
Manual for Home Fire Safety
Modern Guidelines for Fire Control
Municipal Fire Administration
Municipal Support of Volunteer Fire Companies
MCA Chem-Gard Manual

Operating Fire Department Aerial Ladders
Operating the Fire Department Pumper
— 3rd Edition
Operation Skyline (Pre-Fire Planning for High-Rise Office and Apartment Buildings)

Promotional Study Course for Firemen

Questions and Answers (A Study to Fire Service Hydraulics)

Recommended Standards for Fire Fighters
Reconstruction of a Tragedy

Salvage and Overhaul Practices — 5th Edition
Science Applied to the Fire Service
— 3rd Edition
Suburban Fire Fighting
Successful Public Relations — The What Why Who How Where When

The Fire Chief's Handbook — 2nd Edition
The Fire Chief's Handbook — 3rd Edition
The Fire Department Officer — 2nd Edition
The Mechanism of Extinguishment of Fire by Finely Divided Water
Training Firemen to Make Dwelling Inspections

Water Supplies for Fire Protection
— 2nd Edition

FIRE SERVICE

EDUCATIONAL FILMS

The films listed are obtainable from the Film Library of the Department of Health and Community Services, 880 Portage Avenue, Winnipeg, (772-4554)

Another Man's Family — 25 min. colour
Are You Safe At Home? — 18 min. B & W

Before They Happen — 14 min. B & W

Donald's Fire Survival Plan — 11 min. colour
Don't Get Burned

Fire In My Kitchen — 12 min. colour
Fire In Town — 26 min. colour
Fire — Not In My House — 11 min. colour
Fire — Two Way Out — 11 min. colour
Flammable Liquid Fire Safety — 18 min.

Go To Blazes — 20 min. B & W

Have a Wonderful Evening — 16 min. B & W
He Comes Without Calling
Hot Stuff — 9 min. colour

I'm No Fool With Fire — 10 min. colour
In A Fire Seconds Count — 18 min. colour
It's Your Life — colour

Learn Not To Burn
Liquids Can Burn — 13 min. colour

Operation Edith — 11 min. colour

Playing With Fire — 16 min. colour
Price Of Fire, The — 23 min. B & W

Read The Label & Live — 9 min. colour
Rehearsal For Survival

Science Of Fire, The — 20 min. colour
See A Pin — 15 min. colour
Setting Fire For Science — 20 min. colour

The Angry Flame
The Challenge
They Called It Fire Proof — 29 min. colour
They Didn't Have To Die — 10 min. B & W
Tiger In The House — 14 min. colour

Will Your Job Burn — 18 min.
Where There's Smoke — 10 min. B & W
Where's Tommy — 11 min. colour

You And Yours — 20 min. colour

Section VI

Manitoba Fire Chiefs

1911-1912

1911-1912

1911-1912

1911-1912

1911-1912

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1911-1912

OFFICE OF THE FIRE COMMISSIONER
LIST OF THE FIRE CHIEFS AND
FIRE DEPARTMENTS

1983

Alexander	Vacant
Alonsa	Stan Fashoway
Altona	Ed Klassen
Amaranth	Thomas Thompson
Angusville	Mike Klym
Arborg-Bifrost	Wm. R. Aitken
Ashern	Wm. Koch
Austin	Don Currie
Baldur-Argyle	Marcel Fransoo
Barrows	Vacant
Beausejour	Ron Nikodem
Belmont	Edward Verhelst
Benito	John Prokopowich
Berens River	Tache McKay
Big Black River	Raymond Valiquette
Binscarth	Walter K. Hutton
Birch River	Floyd Corbett
Birtle	Gerald Birch
Bissett	Louis Rushton
Boissevain	Sheridan Green
Bowsman	Ken Fahrenschoen
Brandon	E. Polnick
Brochet	Adolf Cook
Camperville	George Flamond
Carberry-N. Cypress	R. Alvin Walker
Carman-Dufferin	Brian Milne
Cartier, R.M.	Roger Gillis
Cartwright-Roblin	Wm. G. Waldie
Churchill	Ken Bertram
Cormorant	Joe Sydor
Cranberry Portage	Tihamer Nagy
Crane River	James Moar
Cross Lake	Glen Smith
Crystal City	Wm. McKittrick
Cypress River	Brian Laing
Dallas-Red Rose	Mark Mankewich
Darlingford	Bob Davidson
Dauphin	G. Seeley
Dauphin River	Einar K. Einarsson
Deloraine	Wm. Kilmury
Dominion City	Barry Gushuliak
Duck Bay	Garry Campbell
Dunrea	Len Clark
East St. Paul	Ernie Ottenbreit
East Selkirk	Clive Rennie
Easterville	Garfield McKay
Elm Creek	Kermit Olson
Emerson	Lawrence Pow
Erickson	Dennis Skog
Eriksdale	Harry Granburg
Ethelbert	Ray Silbernagel
Fisher Branch	Dave Caldwell
Flin Flon	Don W. Still
Fork River	Ben Bornn
Foxwarren	Don Hodgson

Gilbert Plains
 Gillingham
 Gimli
 Gladstone
 Glenboro
 Glenella
 Gods Lake Narrows
 Grand Marais
 Grand Rapids
 Grandview
 Gretna
 Grunthal
 Gypsumville

Hamiota
 Hartney
 Harwill
 Haywood
 Herb Lake Landing
 Holland
 Homebrook

Ilford
 Inglis
 Island Lake

Kelwood
 Kenton
 Killarney
 Kleefeld

La Broquerie
 La Riviere
 Lac Du Bonnet
 Leaf Rapids
 Letellier-St. Joseph
 Lorette
 Lorne, R.M.
 Lowe Farm
 Lundar
 Lynn Lake

MacDonald, R.M.
 MacGregor
 Mafeking
 Manigotogan
 Manitou
 Matheson Island
 McAuley
 McCreary
 Meadow Portage
 Melita
 Miami
 Miniota
 Minitonas
 Minnedosa
 Moose Lake
 Moosehorn
 Morden
 Morris

National Mills
 Neepawa
 Nelson House
 Newdale
 Ninette

Gerry Shmon
 Tom N. Playford
 Bert Bouillet
 Herman Hofer
 W.R. Jamieson
 Clifford Morris
 Leslie Whiteway
 Art Carriere
 Siegfried Brey
 John Yarush
 John Teichroeb
 Wm. Giesbrecht
 Murray L. Jackson

Douglas Roberts
 R.A. McKenzie
 Bob Forester
 J. Dheilly
 Jim Corman
 Ron Landerville
 Ruth Zahorodney

Edward Shoup
 Gerald Gorda
 Dave Playfair

Dave Melynychuk
 Peter Siemens
 C.E. Hartwell
 Abe Martens

Gilbert Tetrault
 Karl Wiklund
 Bob McKay
 Edward Kozy
 Joseph Lavallee
 R. Desorcy
 Larry Vancauwenberghe
 Geo Klassen
 Ernie Oliver
 A.J. Drinnan

Alvin R. Murner
 Ronald Borton
 Archie Paul
 Charles Simard
 R.E. Christoff
 Don Ladouceur
 Murray Barkley
 Wm. Roncin
 Ken Spence
 Mel Davis
 L. Mansell
 S.W. Dales
 Douglas E. Wagner
 M. Mummery
 Michael Lucien
 Michael Kutzy
 Jack A. Duncan
 Bill Harder

Leon Guiboche
 Tim Prawdzik
 George Howard
 Garry Waddell
 Bob Mason

OFFICE OF THE FIRE COMMISSIONER
LIST OF THE FIRE CHIEFS AND
FIRE DEPARTMENTS
1983 (Continued)

Niverville	Rene LaRiviere	Souris	Don Doherty
Norway House	Paul Low	South Indian Lake	Steve Ducharme
Notre Dame de Lourdes	Gilbert Bazin	South Norfolk, R.M.	Rudy Rudnicki
		Sperling	Wendell J. Fewster
Oak Bank	John Murrell	Sprague	Stan Meek
Oak Lake	Robert Smith	Steinbach	Ert Peters
Oak River	Kenneth Kingdon	Stonewall-Rockwood	Wayne Tyerman
Oakburn	J.R. Edmundson	Stony Mountain-Rockwood	Ron Lucas
Ochre River	W. Lloyd Freeman	Strathclair	Howard C. Pahl
Onanole & Dist.	David J. Green	Swan River	Walter Hickman
Pelican Rapids	Gordon Munroe	Teulon-Rockwood	Jack Palen
Pierson	Merv Nicholls	The Pas	Neil Puckett
Pikwitonei	Harvey Brightnose	Thicket Portage	Alvin Brightnose
Pilot Mound	K.L. Heppner	Thompson	L. Carkener
Pinawa	N.P. Cliche	Treherne	John Jenkinson
Pine Falls	Peter Hutchison		
Piney	Dale Edbom	Victoria Beach	Robert L. Jonsson
Plumas	Claude Mercier	Vita	Robert C. Cesmystruk
Plum Coulee	Aron Rempel		
Pointe du Bois	Stanley Werestiuk	Wabowden	Vern Smith
Portage la Prairie	Albert McDonald	Wallace and District	Bob Chesney
		Warren-Woodlands	Allan Jones
Rapid City	Wm. Bertrand	Wasagaming	Jacques Saquet
Red Deer Lake	Thelma Hather	Waskada	W.H. Watson
Reston	Ross Benzie	Waterhen	Allan McCreery
Richer	Louis Verrier	Wawanesa	Mel Roney
Rivers	Maurice Dickson	West St. Paul	James G. Turney
Riverton	Raymond Johnson	Whitemouth, R.M.	Paul Thomson
Roblin	C. Brade	Whitewater, R.M.	Howard Turnbull
Roland	James Moffatt	Winkler	P. Enns
Rorketon	Leo L. Hrushowy	Winnipeg	Lloyd Moist
Rosedale, R.M.	Matt Skibinsky	Winnipeg Beach	Lyle Olson
Rosenort	Frank Plett	Winnipegosis	C. Bergen
Rosburn	Larry Huston		
Rosser	Carl Simonson		
Russell	Henry Smith		
St. Adolphe	Hubert Brodeur		
St. Andrews, R.M.	Edwin Carter		
St. Claude	Alfred Pineau		
St. Francois Xavier	John Zeemel		
St. Jean Baptiste	Norbert Sabourin		
St. Laurent	Ed Schon		
St. Lazare	Andrew Perreault		
St. Malo	Denis Maynard		
St. Pierre-Jolys	R. Hebert		
Ste. Anne	Maurice Chaput		
Ste. Rose du Lac	Wm. Ryder		
Sandy Lake	Les Lewandoski		
Selkirk	Ted Wozny		
Seymourville	Ted Seymour		
Sherridon	Nick Benyk		
Shoal Lake	J.R. Edmundson		
Sifton	Martin Gancher		
Snow Lake	Brian Hicks		
Somerset	Luc Boulet		



